

NEWSLETTER

Volume 48



Celebrating
4 Years
— of the —
**ChampSoft
Newsletter**

**FOUR YEARS****FORTY-EIGHT ISSUES****ONE SHARED STORY**

— Healthcare / Artificial Intelligence

How AI Is Transforming the Future of Healthcare

Artificial intelligence is no longer a future concept in healthcare. It is already influencing how clinicians diagnose conditions, how hospitals manage their resources, and how patients access and experience care.

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— Software Development / AI Strategy

The Strategic Value of AI in Modern Software Development

How artificial intelligence is reshaping the way we build software — and why the difference between using it loosely and using it with intent has become the most important decision a team makes.

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champsoft.com — **Blogs Live**

Latest Blogs

Foward Deployed Engineer + Web Application Security + API - First Approach + AI in Modern Software Development

Four Years of Our Newsletter

*Forty-eight issues in,
and the thread has never once broken.*

It started small — a monthly note meant to close the distance between teams working out of different cities and different time zones. No press cycle, no big launch, just an issue every month, sent out whether the news was big or quiet. Four years later, that habit has become one of the few constants that runs through every team at ChampSoft, in the US, Sri Lanka, and India alike.

What makes an anniversary like this worth marking isn't the number four itself — it's what forty-eight consecutive issues actually represent: forty-eight months where a team sat down, gathered what mattered, and made sure it reached everyone. That kind of consistency is easy to overlook and hard to earn.

LETTER FROM THE CEO

This month marks four years of the ChampSoft newsletter. Four years, every issue, without missing a beat. That's not easy to do. Most company newsletters start strong and quietly die after a few months. Ours didn't, and that's worth calling out. The credit for this goes to Sunimal and Tharuka. They started it, they pushed it, and they kept it going when it would have been easy to let it slide. Every issue you've read over the last four years exists because they made it happen. Thank you both.

The newsletter started as a simple idea: keep everyone in the loop on what's happening across our projects, what's new in technology, and what our teams are learning. It's grown into something people actually look forward to. It's how we share wins, learn from each other, and stay connected across our teams in the US, Sri Lanka, and India.

Four years in, the goal stays the same. Keep it useful. Keep it honest. Keep it going.

Here's to the next four years.



JEEWA PERERA
Chief Executive Officer
ChampSoft
The Software Visionaries

WHAT THE NEWSLETTER HAS MEANT TO US

Celebrating Four Years of the ChampSoft Newsletter

Since its launch in 2022, the ChampSoft Newsletter has grown from a platform for company updates and employee stories into a vibrant space for sharing technology insights, client experiences, innovation, and achievements.

Over the past four years, we have expanded our coverage across healthcare, AI, software engineering, secure development, compliance, lifecycle intelligence, and major initiatives such as CHILL OS. With improved content, broader team participation, and the publication of our 48th edition, the newsletter continues to reflect the knowledge, creativity, and progress of ChampSoft.

We sincerely thank everyone who has contributed articles, ideas, stories, and updates. Your participation has made every edition meaningful and engaging.

We encourage all employees to continue sharing their experiences, expertise, project achievements, and innovative ideas. Together, let us make the next chapter of the ChampSoft Newsletter even more inspiring and impactful.



SUNIMAL PERERA

General Manager - Srilanka / India

ChampSoft
The Software Visionaries

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The ChampSoft Newsletter is more than a monthly publication, it's a reflection of who we are as a company. It celebrates our people, showcases our achievements, and keeps our shared vision alive. Congratulations to the Champ360 team on four successful years, and wishing you continued success in the years to come!



CHAMINDA DIAS

Chief Development Officer

ChampSoft
The Software Visionaries

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Champsoft Newsletter has been a cornerstone in growing the company culture since its initiation. As the teams usually get siloed into their own projects and busy schedules, the newsletter has been one common thread stitching everyone together through the years. Kudos to the Champ360 team bringing this to us every month. Happy anniversary !



ESHAN HERATH

Chief Data Scientist

CHILL
DEEP DATA INSIGHT

“

Post covid remote working environment made huge impact on team work and internal communication. During that time Newsletter was a great tool to communicate internal events/news and knowledge among team members effectively. Kudos to Champ 360 team for continuously doing it for 4 years



THOSHAKA WIJETHUNGA

Chief Delivery Officer

ChampSoft
The Software Visionaries

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A company grows through its people, but a culture grows through the stories they share. For years, the Champsoft Newsletter has been capturing those stories via welcoming new faces, recognizing milestones, and bringing every corner of the organization a little closer together. It has become a symbol of connection, even when projects, deadlines, and distances keep us apart. A huge thank you to the Champ360 team for their passion and commitment in making this possible every single month.



SAZIA BEGUM

HR Executive

ChampSoft
The Software Visionaries

How AI Is Transforming the Future of Healthcare

Artificial intelligence is no longer a future concept in healthcare. It is already influencing how clinicians diagnose conditions, how hospitals manage their resources, and how patients access and experience care.

Healthcare organizations today face growing pressure from rising operational costs, workforce shortages, increasing patient expectations, and time-consuming administrative responsibilities. Clinicians often spend a significant amount of their working day completing documentation, billing, scheduling, and other repetitive tasks instead of directly supporting patients.

AI offers healthcare organizations an opportunity to address many of these challenges while creating a more efficient, responsive, and personalized care environment.

Improving Medical Imaging and Diagnostics

One of the most important applications of AI in healthcare is medical imaging and diagnostics. AI-powered systems can analyse X-rays, CT scans, MRIs, retinal images, and other medical images to identify patterns that may indicate conditions such as cancer, stroke, diabetic retinopathy, or cardiovascular disease.

Fast Fact

These technologies are not designed to replace radiologists or other healthcare professionals. Instead, they act as decision-support tools.

Instead of replacing clinicians, these systems act as decision-support tools that can help review cases more efficiently, prioritise urgent patients, and reduce the possibility of diagnostic errors.

By combining the experience of medical professionals with the speed and analytical power of AI, healthcare providers can make faster and more informed decisions.

The result is a partnership rather than a substitution – one where the machine's pattern-recognition speed and the clinician's judgment work the same case from two directions at once, narrowing the window in which a serious finding can go unnoticed.

Supporting Earlier Intervention, Faster Discovery, and Personal Care

From the emergency department to the research lab, AI's clinical reach extends well beyond the imaging suite.

Supporting Earlier Clinical Intervention

AI can analyse large volumes of clinical data to identify patients who may be at risk of developing complications. In emergency departments and intensive care units, predictive models can help detect early warning signs of conditions such as sepsis before symptoms become severe.

Healthcare teams can then intervene earlier, potentially improving patient outcomes and reducing the length of hospital stays. Similar systems can support chronic care management by identifying patients who are more likely to be readmitted or experience complications.

This enables healthcare providers to deliver more proactive follow-up care and allocate resources to the patients who need them most.

Accelerating Drug Discovery

Traditional drug discovery can be a lengthy and expensive process. Researchers must evaluate large numbers of compounds, study biological interactions, and conduct extensive testing before a potential treatment can progress.

AI can speed up the early stages of this process by analysing molecular structures, predicting how compounds may behave, and identifying promising drug candidates. These capabilities can help pharmaceutical companies and research institutions reduce development time, improve research efficiency, and explore new treatment opportunities across areas such as oncology, infectious diseases, and rare conditions.

Advancing Personalized Medicine

AI is helping healthcare organizations move towards more personalized care by analysing information from electronic health records, genetic data, medical history, laboratory results, and wearable devices.

These insights may help clinicians understand how an individual patient could respond to a particular medication or treatment. This can support more targeted therapies, reduce adverse reactions, and improve the overall effectiveness of care. As healthcare data becomes more connected, personalized medicine is expected to become an increasingly important part of treatment planning.



Enhancing Patient Engagement, Optimizing Operations

Not every gain happens at the bedside. Some of the most valuable applications run quietly behind the scenes.

Enhancing Patient Engagement

AI-powered virtual assistants and chatbots are also changing how patients interact with healthcare services. These tools can assist with routine activities such as appointment scheduling, symptom checking, medication reminders, post-treatment guidance, and answering frequently asked questions.

When properly designed, virtual assistants can provide patients with faster access to useful information while reducing pressure on administrative and clinical teams. However, these systems must clearly communicate their limitations and direct patients to qualified healthcare professionals when human support is required.

Optimizing Healthcare Operations

Some of the most valuable AI applications may happen behind the scenes. Hospitals and healthcare organizations can use AI to improve workforce scheduling, bed management, patient flow, supply chain planning, billing, medical coding, and resource allocation.

In Practice

Predictive systems can help hospitals estimate patient demand, improve staff coverage, and identify potential shortages in supplies or equipment.

Automating repetitive workflows can also reduce administrative pressure and allow healthcare employees to spend more time on high-value responsibilities. The result is a more resilient organization and a better experience for both patients and staff.

Building a Responsible AI-Enabled Healthcare Future

The future of AI in healthcare will depend on collaboration between clinicians, software engineers, data scientists, compliance specialists, product teams, and policymakers.



Addressing Privacy, Bias, and Trust

Every opportunity AI creates in healthcare comes with an obligation attached to it.

Although AI offers significant opportunities, healthcare organizations must approach implementation carefully. AI systems often rely on large amounts of sensitive patient information. Strong cybersecurity controls, data governance policies, access management, and regulatory compliance must therefore be built into every solution.

Algorithmic bias is another major concern. When AI models are trained using incomplete or unrepresentative data, they may produce less accurate outcomes for certain patient groups. Healthcare organizations must continuously test their systems for fairness, accuracy, and reliability.

Human oversight must always remain part of the process. AI should support clinical judgment rather than operate as an uncontrolled replacement for it.

Transparency is equally important. Clinicians should understand how an AI system reaches its recommendations, particularly when those recommendations influence high-risk medical decisions.

Successful AI implementation is not simply about introducing new technology. It requires a clear understanding of clinical workflows, patient needs, organizational goals, security requirements, and ethical responsibilities.

Healthcare organizations that take a thoughtful and responsible approach can use AI to improve decision-making, reduce administrative strain, enhance patient engagement, and create more personalized care experiences.

Partner with Champsoft

At Champsoft, we help healthcare organizations design and develop secure, scalable, and compliance-focused digital solutions. From custom healthcare platforms and workflow automation to data analytics, system integration, and AI-enabled applications, our teams work closely with organizations to transform complex challenges into practical technology solutions. Ready to explore how AI and custom software can support your healthcare organization?

The Strategic Value of *AI* in Modern Software Development

How artificial intelligence is reshaping the way we build software — and why the difference between using it loosely and using it with intent has become the most important decision a team makes.

Software Development / AI Strategy

7 Minutes Reading



Vibe Coding vs. Spec-First Development

Pattern A — Unstructured

Vibe coding feels fast. That's the problem.

Vague prompts, generated code accepted without deep review, rapid iteration without a clear plan — an estimated 90% of developers using AI tools default to this pattern, because it feels productive in the moment

Underneath, three costs compound quietly:

Token waste, spiraling costs

Redundant prompts and excessive back-and-forth turn small per-request costs into real operational expense at team scale.

Inconsistent code quality

Without a guiding structure, each AI interaction produces code that doesn't cohere with the rest of the codebase.

Heavier debugging later

Code built without clear requirements gets reworked — often costing more time than writing it carefully the first time.

Pattern B — Specified

Spec-first makes AI precise

Before any prompt is written, the requirements, architecture, standards, and testing strategy are defined. AI then executes against a target instead of guessing at one.

01. Detailed requirements and acceptance criteria

02. Architecture decisions and design patterns

03. Coding standards and quality expectations

04. Security and compliance requirements

05. Testing strategies and performance benchmarks

The output: code that's consistent, easier to review, cheaper to produce, and easier to maintain — because the AI was given a target instead of a vibe.

Net effect

The output is code that's consistent, easier to review, cheaper to produce, and easier to maintain — because the AI was given a target instead of a vibe.

01. Learning Curve

Accelerated learning

New frameworks and libraries surface constantly. AI shortens the path from unfamiliar technology to working understanding, for junior and senior developers alike.

02. Time Allocation

Less repetitive work

Boilerplate, test scaffolding, documentation — AI absorbs the routine so developers can spend their attention on architecture and problem-solving instead.

03. Iteration Speed

Faster prototyping

Ideas get built and tested sooner. Faster iteration means faster feedback, which means better decisions earlier in a project's life.

04. Quality Control

Stronger code quality

Bugs, security gaps, and performance issues surface earlier in the process — reducing technical debt before it has a chance to accumulate.

AI isn't replacing developers. It's empowering them to become more productive, more creative, and more effective.

Why AI Matters for Software Projects

The gains don't stop at any one developer's desk. Applied consistently across a team, AI changes what an entire project is capable of — automating routine tasks and supporting development at every stage.

Stage 01

Ship faster

Automated, repetitive work moves off the critical path, so teams deliver working software on a shorter timeline.

Stage 02

Hold the standard

Consistent coding standards persist across contributors and modules, instead of drifting as a project grows.

Stage 03

Catch risk early

Issues surface sooner in the process, when they're still cheap to fix, rather than after they're load-bearing.

Stage 04

Scale the reach

Teams manage larger, more complex projects more efficiently, without a proportional increase in headcount.

Net result

improved productivity, better collaboration, and higher-quality outcomes across the whole project, not just within any one line of code.



AI Is a Partner, Not a Replacement

What clients actually gain

The advantages of a disciplined AI practice show up first in delivery, and then in the relationship.

- › Faster project delivery and quicker time-to-market
- › Higher-quality, more secure software
- › Better use of development budgets
- › Greater innovation through faster experimentation
- › More predictable timelines and project transparency

A balanced perspective

AI enhances productivity, but it cannot replace critical thinking, creativity, business understanding, system design, or engineering judgment. The best developers are the ones who use it well while still applying their own.

Developers keep reviewing AI-generated code, protecting client data, and validating security and performance — the same discipline good engineering has always required.

Looking Ahead

Artificial intelligence is becoming an essential part of modern software development. It helps developers work smarter, enables projects to move faster, and delivers greater value to clients.

At Champsoft, embracing AI isn't simply about adopting new technology — it's about continuously improving how we build software and deliver value to our clients. By combining human expertise with AI, we deliver faster, smarter, higher-quality solutions, freeing developers to focus on what matters most: solving real business challenges.



ISHFAQ SIDEEK
Software Engineer
ChampSoft
The Software Visionaries

“The future of software development isn't AI replacing developers. It's developers who embrace AI, delivering better software than ever before.”

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with Charithma

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What Is a Forward-Deployed Engineer (FDE)?

Inside Tech's Fastest-Growing Job

What Is a Forward-Deployed Engineer (FDE)? Inside Tech's Fastest-Growing Job

A Forward-Deployed Engineer (FDE) is a software engineer who works embedded inside a customer's organization, often on-site, to scope, build, integrate, and deploy technical solutions...

Web Application Security Best Practices for Healthcare IT Teams

A 2026 Guide

Web Application Security Best Practices for Healthcare IT Teams: A 2026 Guide

This guide is written for hospital and health-system IT leaders, healthcare software developers, and integration engineers responsible for securing patient-facing web applications...

API-FIRST APPROACH:

Transforming Software Development IN 2026



API-First Approach: Transforming Software Development 2026

In 2026, the way software is built has fundamentally changed. Instead of building applications as isolated systems, businesses now design APIs and connected ecosystems...

Building Pharmacy & Hospital Inventory Management Software Development in UAE

Building Pharmacy & Hospital Inventory Management Software UAE

The UAE healthcare sector is evolving rapidly, creating a need for efficient inventory management systems. Pharmacies and hospitals require robust software solutions to streamline operations.

The Strategic Value of AI in Modern Software Development



The Strategic Value of AI in Modern Software Development

Software development has always been about solving problems. Over the years, we've seen countless innovations from version control to cloud computing that have fundamentally ...

Balancing Speed and Risk Engineering Custom Software for High-Compliance Verticals

Balancing Speed and Risk: Engineering Custom Software for High-Compliance Verticals

Modern software delivery moves faster than ever, but in highly regulated industries, a single compliance failure or data breach can end a business. For organizations