

Caisesiume

Engineering Lead & Full-Stack Software Engineer

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Profile

Full-stack engineer with nearly three years of professional SaaS experience, promoted from Full-Stack Developer to Engineering Lead after just over two years while remaining hands-on in production code every week.

Lead planning and delivery across a five-person team of in-house developers and external consultants, take broad ownership of architecture and production reliability, and translate business requirements into technical work with commercial, support, and customer-facing stakeholders.

Co-author of a peer-reviewed SEAA 2025 conference paper on LLM prompt engineering, published in Springer's Lecture Notes in Computer Science, and shipped the first phase of generative-AI functionality in a commercial product.

Technical Skills

Languages: TypeScript, JavaScript, C#, Go, SQL

Frontend: React, Next.js, Redux Toolkit / RTK Query, Vite, CSS

Backend: C#/.NET, ASP.NET, .NET Framework (MVC), Node.js, REST APIs, WebSocket, OAuth 2.0, JWT

Data: MSSQL, PostgreSQL, MongoDB

Testing and reliability: Vitest, Jest, MSW, NUnit, production operations, incident response

DevOps: GitHub Actions, CI/CD, Git, Linux, Windows Server, SMTP/DNS infrastructure, email deliverability

AI and LLM: Prompt engineering (published peer-reviewed research), GenAI integration, model-usage optimization

Ways of working: Agile delivery, Jira, sprint ceremonies, code review, technical mentoring, solution architecture, Figma, Claude Code, agentic workflows

Professional Experience

Engineering Lead · Paloma In Sweden AB

January 2026 – Present · Sweden

SaaS platform for email, SMS, events, surveys and marketing automation serving 1,500 organisations

- Promoted from Full-Stack Developer after just over two years; lead engineering planning, prioritisation and delivery across a team of five in-house developers and external consultants while continuing to ship production code personally.
- Translate business and customer requirements into technical specifications, architectural decisions and actionable development plans, performing solution architecture and product ownership responsibilities within a small cross-functional organisation.
- Own technical operations end to end: production incident response, SMTP infrastructure, DNS stability, email deliverability and database operations for a platform whose core value proposition is time-critical message delivery.
- Coordinate engineering work directly with management, sales, support and customer-facing stakeholders, translating between technical constraints and commercial priorities.
- Drive modernisation of CI/CD, automated testing, internal automation and AI-assisted development practices across the team.

Full-Stack Developer · Paloma In Sweden AB

November 2023 – January 2026 · Sweden

- Migrated legacy Razor Pages applications to a React and Web API architecture, delivering a modern frontend to the entire customer base without disrupting live service.
- Planned and built the shared React component architecture in TypeScript with RTK Query, React Hook Form, Vite, Vitest, and MSW, establishing reusable patterns and a testing baseline for the whole frontend team.

- Ported a legacy Java 6 system from CentOS to modern C#/.NET infrastructure, enabling decommissioning of obsolete servers and consolidating the backend ecosystem onto a single maintainable stack.
- Designed and delivered the first phase of generative-AI functionality in Paloma's newsletter editor, including customer-specific context handling and model-usage cost controls.
- Expanded automated test coverage and internal automation across critical paths, replacing repetitive manual verification and preventing regressions in revenue-critical features.
- Served as second-line escalation for advanced technical support, database operations, email deliverability issues, and critical production fixes.

Publication

"Prompt Engineering Guidelines for Using Large Language Models in Requirements Engineering"

K. Ronanki · S. Arvidsson · J. Axell

Software Engineering and Advanced Applications (SEAA 2025, 51st Euromicro Conference), Lecture Notes in Computer Science vol. 16083, Springer.

DOI: https://doi.org/10.1007/978-3-032-04207-1_17

Open-access preprint: <https://arxiv.org/abs/2507.03405>

- Peer-reviewed conference paper based on my undergraduate research: a systematic literature review and expert interviews that identify which prompt-engineering techniques transfer to requirements-engineering tasks and where they break down.

Selected Projects

Xtrone · Autonomous trading platform

2024 – Present · React, TypeScript, Go, PostgreSQL, WebSocket, GitHub Actions, Linux

- Real-time platform that evaluates market conditions and executes automated strategies across approximately 50 assets simultaneously, with dashboards for balances, trade history, portfolio tracking, and strategy performance.
- Sole developer across frontend, backend, persistence, real-time communication, deployment, and ongoing operations.

PepegaClapBot · Livestream automation platform

2019 – 2024 · Next.js, TypeScript, Node.js, MongoDB, MQTT, GitHub Actions, Linux

- Built and operated a multi-tenant platform used by around ten Twitch.tv live streamers to automate live-chat moderation and audience-engagement workflows.
- Processed over 170M chat messages from more than 230K unique Twitch.tv users in continuous production over five years.
- Owned the product end-to-end: development, infrastructure, third-party integrations, deployment, and day-to-day operation.

Education

BSc Software Engineering and Management · University of Gothenburg

Programme taught across the University of Gothenburg and Chalmers University of Technology

August 2020 – December 2023 · Gothenburg, Sweden

- Coursework in software architecture, distributed systems, data structures and algorithms, software quality and testing, research methods and product management.
- Pass with Distinction (VG) in both AI-focused courses: Software Engineering for AI Systems and Software Engineering for Data-Intensive AI Applications.
- Bachelor's thesis on LLM prompt engineering in requirements engineering, subsequently developed into the peer-reviewed publication listed above.
- Certification: Generative AI with Large Language Models (DeepLearning.AI and Amazon Web Services).

Languages

Swedish: Native · English: Full professional proficiency · Italian: B1 proficiency

References

Available on request.