

Zachary Armstead – Full Stack Engineer

zach@zacharmstead.com • (669) 400-0708 • [linkedin.com/zacharmstead](https://www.linkedin.com/in/zacharmstead)

Summary

Full-stack engineer with 7+ years building scalable web applications and AI solutions. Experienced architecting end-to-end systems for platforms serving 40M+ users, with recent focus on RAG-based AI applications and enterprise integrations.

Experience

Full Stack Engineer / Forward Deployed Engineer

[Empromptu](#) – No Code AI App Builder | Oct 2024 - Oct 2025 (1 year)

- Architected end-to-end AI applications leveraging retrieval-augmented generation (RAG), embedded models, and systematic prompt optimization to achieve production-ready accuracy of 98% without extensive iteration
- Thrived in a lean startup environment by wearing multiple hats—writing production code, conducting customer calls, debugging enterprise issues, and contributing to product decisions
- Built and refined the web scraping agent, model optimization pipeline, and automated evaluation systems, shipping MVP features quickly and iterating based on real customer feedback and usage data
- Contributed to platform development initiatives including context engineering, evaluation frameworks, and optimization tools that enabled users to build AI applications with frontend, backend, and intelligent logic capabilities
- Operated with startup agility to ship features fast: implemented the integrated database feature, enhanced the split-view builder interface, and developed prompt family selection logic while maintaining code quality and system reliability
- Served as a Forward Deployed Engineer, embedding with enterprise clients to architect and implement custom AI application integrations within their production environments, ensuring seamless deployment of Empromptu's no-code AI builder platform

Senior Integration Engineer

[Wrike](#) – AI-powered enterprise work management software | Sep 2022 - Sep 2024 (2 years)

- Architected integrations across Salesforce, Workato, Vitally, and Wrike using REST APIs, webhooks, and custom transformations, processing 100K+ records daily
- Built automated workflows in Workato using JavaScript recipes, Salesforce Flows, and SOQL queries to eliminate manual data entry and reduce CSM workload by 8 hours/week
- Partnered with Sales, Customer Success, and engineering teams to design and implement automation solutions using Workato, leveraging APIs, webhooks, and data transformations to streamline business operations

- Designed and maintained integrations between Salesforce (flows, reports, dashboards), Salesloft, and Customer Success platforms, ensuring data consistency and system alignment
- Optimized business processes by gathering stakeholder requirements, analyzing data with SQL, and implementing solutions that reduced churn and improved operational efficiency
- Collaborated with Salesforce developers and backend teams to troubleshoot integration issues, maintain documentation, and ensure scalability following industry best practices

Software Engineer – Web Team

[SoundCloud](#) – Artist-first audio streaming & distribution platform | Sep 2018 – Aug 2022 (4 years)

- Built and shipped features for 40M+ artists using React, Next.js, and TypeScript, maintaining 99.99% uptime across high-traffic audio streaming platform
- Improved code quality through mentorship of 5 junior engineers, comprehensive code reviews, and testing strategies that increased coverage from 60% to 80% and reduced production bugs by 50%
- Led performance optimization initiatives reducing page load times by 30% and technical debt remediation projects that improved developer velocity
- Collaborated with product, design, and backend teams on cross-functional projects; contributed to RFC reviews, hiring, and engineering culture initiatives

Software Engineering Intern (Summer internship)

[SoundCloud](#) – Artist-first audio streaming & distribution platform | Jun 2018 – Aug 2018 (3 months)

- Collaborated with web engineering team to develop features for soundcloud.com using React and JavaScript, participating in agile processes including daily standups, sprint planning, and code reviews
- Built user-facing features with responsive designs through pair programming sessions, gaining hands-on experience with modern web technologies and Git workflows
- Completed capstone project and delivered presentation to engineering leadership, engaging in mentorship programming and professional development opportunities

Education

Bachelor of Science in Computer Science

San Diego State University, Aug 2014 – Aug 2018

Skills

- Frontend: JavaScript/TypeScript, React, Next.js, HTML/CSS, Tailwind CSS
- Backend: Node.js, Python, AWS Lambda, Cloudflare Workers
- Databases & Message queues: PostgreSQL, MongoDB, Redis, RabbitMQ, Kafka, SQS
- Testing: Jest, React Testing Library, Cypress, Playwright
- AI/ML: LLMs, RAG, LangChain, Vector Databases, Prompt Engineering, Embedded Models
- Infrastructure: AWS, Azure, Docker, Kubernetes, Serverless, CI/CD
- Integration & Data: Salesforce, Workato, REST/GraphQL APIs, Webhooks, SQL
- Tools: Git, Jira, Monday.com, Azure DevOps