Joshua Small

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Staff Software Engineer

Full-Stack Development · Distributed Systems & Architecture · AI-Assisted Engineering · Technical Leadership

Full-stack staff engineer who builds with the customer in mind, not just the codebase. Operates as a force multiplier across teams—leading the architecture and design of complex, scalable systems while staying deeply hands-on in the code. Built Aiwyn's payment infrastructure from scratch for a platform that grew payment volume 100x. Experienced in configuring and scaling AI-assisted development workflows across engineering teams using Claude Code, including project-level CLAUDE.md configuration, custom hooks, MCP server integrations, and team-wide adoption across multiple repositories.

Areas of Expertise

· Payment Systems	· Full-Stack Development	· AI-Assisted Development
· Stripe & Plaid Integration	· Kotlin, Spring Boot, Java	· Claude Code at Scale
· Architecture & Scalability	· Angular, TypeScript, GraphQL	· CLAUDE.md, Hooks, MCP Servers
· Cross-Functional Influence	· PostgreSQL, Redis, GCP	· Mentorship & Team Standards

Professional Experience

Aiwyn **2020 - Present**

Staff Software Engineer

Act as a force multiplier across engineering teams—leading the architecture and design of complex, scalable systems that serve as critical infrastructure for the business, while remaining hands-on in the code. Drive the technical roadmap for major cross-cutting initiatives, including greenfield builds and platform modernization, and evaluate and introduce new technologies in line with long-term platform strategy. Set high standards for code quality, design, and system performance through deep technical reviews, and mentor senior and mid-level engineers to elevate the team. Own the Experience Business Unit—Payments, Engagements, and Client Requests—working directly with product and customer success to translate customer pain points into technical solutions. Drive AI-assisted development adoption across the organization using Claude Code—configuring project-level CLAUDE.md files for codebase context, building custom hooks for CI integration and code quality enforcement, connecting MCP servers for external tooling, and establishing shared configurations adopted across multiple repositories.

Senior Software Engineer

Led billing module extraction from monolith across 8 iterative phases—collaborated closely with product to sequence the work so customers experienced zero disruption during a major architectural change. Implemented PostgreSQL template databases accelerating test execution by 40%. Created tooling and engineering patterns adopted across the organization.

Software Engineer

Built the entire payment infrastructure from the ground up for a platform that grew payment volume from $24M to $2.38B—a 100x growth trajectory. Worked directly with product and implementation teams to design payment flows that matched how accounting firms actually operate—quick payments for small balances, payment plans for large invoices, and payment links for client self-service. Designed the payment state machine with self-healing reconciliation and long-term idempotency. Implemented full Stripe integration including Payment Intents, Connect, ACH, and card processing. Led migration from Stripe Charges to

Payment Intents and expanded to international payments including Canadian PAD, BACS, and multi-currency support. Built both the firm-facing and client-facing payment experiences end-to-end—backend APIs, frontend UX, and everything in between.

PeraHealth: The Rothman Index **2019 - 2020**

Associate Software Developer

Built healthcare analytics features for clinical decision support systems using the Rothman Index for patient condition monitoring. First experience building software where the end user's context—nurses and clinicians making real-time decisions—shaped every product choice.

Education

• University of North Carolina at Charlotte – B.S., Computer Science, Cum Laude