

Full stack engineer with 20+ years building scalable, maintainable, highly-available systems. Currently applying that foundation to agentic AI engineering. Deep expertise in Java, Node.js/JavaScript, Objective-C, standards-compliant web engineering with JavaScript and CSS, distributed systems, enterprise messaging, and relational databases. Track record delivering infrastructure for PayPal, Visa and Walmart with a strong focus on performance, reliability, and close collaboration with product and design stakeholders. Recent hands-on experience designing multi-agent workflows with orchestrated subagents and MCP-driven autonomous tooling.

CORE TECHNICAL SKILLS

- **Backend:** 20+ years of enterprise Java (Concurrency, Spring, etc), Javascript (Node), Typescript, Objective-C, bash, C#
- **AI & Agentic Engineering:** Multi-Agent Orchestration, Subagent Design, MCP (Model Context Protocol), Prompt Engineering, Claude / Claude Code, LLM Tool Use, AI-Augmented Development
- **Leadership:** Architectural Guidance, Technical Mentorship, Engineering Principles
- **Architecture & Systems:** REST Microservices, Distributed Systems, Event-Driven Architecture, High-Availability Systems, Design Patterns, Enterprise Integration Patterns (EIP)
- **Infrastructure:** Kubernetes, Docker, Linux, Unix Scripting (bash), CI/CD, Git
- **Frontend:** Wicket, Angular2, CSS, HTML5 / XML, PHP, VB6 / VBA (20+ years ago), Bootstrap, ApexCharts
- **Databases:** PostgreSQL, MySQL, SQLite, SQL, Hibernate ORM, Relational Data Modeling, JDBC
- **Messaging & Integration:** JMS, JMX, ActiveMQ, IBM MQ, Apache Camel

KEY ACHIEVEMENTS

- Built and scaled systems managing 10,000+ messaging nodes across enterprise environments
- Delivered infrastructure supporting ~98% of PayPal global traffic
- Created TumbleOn (personal project), the #1 paid Tumblr app on iOS
- Currently modifying Sega Game Gear ROMs and original games in Z80 assembly through orchestrated multi-agent AI workflows and MCP-driven emulator control (github.com/codercowboy)

SELECTED EXPERIENCE

HYTE Technologies, LLC | Principal Software Engineer 2013 - 2026

- Served as the sole staff engineer responsible for technical direction of the platform, advising the founding team on architecture and engineering strategy for enterprise middleware supporting Walmart's critical infrastructure.
- Architected and scaled a platform managing 10,000+ ActiveMQ instances, enabling enterprise customers to operate large-scale messaging systems with improved reliability.
- Built Java-based backend services and APIs unifying 10+ versions of ActiveMQ, eliminating inconsistencies and simplifying integration across complex environments.
- Designed hybrid messaging environments with deep IBM MQ integration for global clients.
- Delivered performance and scalability improvements for high-concurrency, production-grade workloads.
- Partnered with product stakeholders to define platform capabilities and prioritize features aligned with customer and business needs.
- Led architectural decisions improving system reliability, maintainability, extensibility, and long-term scalability
- Built RBAC and security audit systems meeting strict compliance requirements.

Mobile Consultancy | Senior Software Engineer 2012 - 2013

- Led planning and execution across multiple mobile development initiatives.
- Together with a small team of three engineers, developed three iOS / Android apps using Objective-C and/or Java for clients such as Adidas, HomeAway, and 7-Eleven's tech incubator.
- Designed and implemented backend web services, MySQL databases, and tooling supporting cross-platform mobile applications.

CONTINUED SELECTED EXPERIENCE

Vast | Senior Software Engineer 2011 - 2012

- Developed Java and PHP services supporting scalable application integrations.
- Designed and maintained relational data models in PostgreSQL and MySQL, improved query performance and reliability.
- Built testing frameworks to capture and replay transactions, ensuring reliability and preventing production regressions.

Dell (via MomentumSI) | Senior Software Engineer, Consultant 2010

- Co-Designed and implemented automated unix OS installations and server grouping functionality in Java REST/SOAP services for Dell's Active System Manager middleware.
- Participated in design and roadmap discussions with principal architects, developers, and ux.
- Mentored developers on implementation and design patterns.
- Improved productivity through automation scripts, simplified development processes, and technical documentation.

Pocket Sized Giraffe, LLC | iOS Mobile Engineer / Cofounder 2010 - 2015

- Created TumbleOn, consistently ranked as the #1 paid Tumblr app on iOS for both iPad and iPhone.
- Full SDLC ownership, including product concept origination, and iOS engineering with two partners (a designer and another engineer). Led product roadmap, architecture, and implementation.
- Published open-source apache-licensed utilities library.

PayPal | Senior Software Engineer 2007 - 2010

- Engineered a high-performance Java XSLT-based frontend UI rendering platform handling ~98% of PayPal's global traffic, significantly improving scalability and user experience reliability.
- Worked closely with product, security, and localization teams to deliver compliant, high-performance systems at global scale.
- Built multi-threaded testing and simulation frameworks that reduced bug reproduction time from hours to minutes
- Led migration from legacy C++ systems to modern Java-based services, improving maintainability and performance.

Visa | Software Engineer 2005 - 2007

- Developed high-availability C# applications supporting enterprise banking systems and customer service platforms for the launch of Visa's Prepaid Card program as the youngest member of the engineering team.
- Built enterprise-grade MySQL-backed systems supporting enterprise banking workflows, writing complex Hibernate ORM HQL for high-volume transactional data in Java.
- Worked with teams across product and operations to design workflow-driven systems using jBPM, improving operational efficiency for financial institutions.

EDUCATION

The University of Texas at Austin | BA, Computer Science | 2004