

TIM WU

Full Stack Software Engineer | AI Engineering | Java, TypeScript, Python

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SUMMARY

Full stack engineer with 7+ years building secure, scalable platforms across Java/Spring, TypeScript, and Azure. Experienced in developing high-traffic authentication flows and responsive UIs for millions of users. Recently pivoted into AI engineering and won 2 hackathons building agentic systems, RAG pipelines, and LLM-powered tools. Passionate about team building, teaching others, and shipping production AI.

HIGHLIGHTS

- 7+ years developing scalable B2C platforms with modern frontend frameworks and accessible, performant UI design. (JavaScript/TypeScript, REST, Responsive Web Design, CI/CD).
- 5+ years using AWS and Azure for cloud-based deployments and database management.
- 5+ years managing high-traffic authentication systems with secure practices: rate limiting, nonce validation, whitelisting, input validation.
- Active AI builder: 2 hackathon wins (AWS Agentic AI, Daytona HackSprint), experience with LLMs, RAG pipelines, agentic systems, and MCP.

EXPERIENCE

Software Engineer

Gen

📅 Nov 2020 – May 2025

📍 Culver City, CA (Remote)

- Enhanced front-end applications with Thymeleaf to improve security settings and user profile pages, increasing end-user NPS metrics by 20 points.
- Built a login activity alert system to detect suspicious access and notify users in real time.
- Managed high-traffic Spring Boot microservices for authentication and profile access, supporting over 300k daily API requests for login and 50k for user profile data with consistent up-time and responsiveness.

Software Engineer

NortonLifeLock

📅 Sep 2018 – Nov 2020

📍 Herndon, VA

- Implemented data validation pipelines for a Cassandra to AWS Dynamo migration, verifying over 2 petabytes of user data during the transition.
- Developed the User Profile SPA using Angular and Java, which now serves as the central interface for millions of users to view and manage account information.
- Introduced Cucumber-based ATDD practices, increasing automated test coverage by 10% and reducing feature rework by 40%, ensuring full alignment with stakeholder requirements.

Associate Software Engineer

REI Systems

📅 May 2017 – Aug 2018

📍 Sterling, VA

- Built reusable Angular modules in collaboration with the component team to support a scalable and maintainable front-end architecture.
- Practiced Behavior-Driven Development (BDD) to meet client specifications and uphold strict quality standards.
- Reduced QA testing time by 40% by implementing a Selenium-based automated test suite, enabling faster regression cycles and earlier defect detection.

AI PROJECTS & HACKATHON WINS

1st Place — AWS Agentic AI Hackathon : Built clinical trials recommendation agent using AWS Bedrock, semantic search over clinicaltrials.gov data, and WRITER's Palmyra x5 model to match patients with relevant trials based on health data.

1st Place (Sentry) — Daytona HackSprint : Created Sentralert—an intelligent alert agent using DeepWiki MCP for codebase analysis, Sentry Discover API for metrics, and Claude Haiku to synthesize actionable alert recommendations with human-in-the-loop approval.

tau2-bench-agent : Forked tau2-bench to integrate A2A protocol and ADK for agentic evaluations (AgentBeats competition).

glutton : RAG pipeline using Docling for document chunking, embedding generation, and Weaviate vector storage.

wutims.com : Personal blog exploring AI-assisted frontend development with neobrutalist design.

EDUCATION

B.S. in Computer Science

University of North Carolina at Chapel Hill

📅 2013 – 2017

📍 Chapel Hill, NC

SKILLS

