

Robert Manalo

Austin, TX
407-480-6658
robertmanalo@me.com

portfolio: [robby.surf](#)
[github.com/robmahalo](#)
[linkedin.com/in/robmahalo](#)

SKILLS

Strong: Java, Spring Boot, Python, React, NextJS, Swift, TypeScript, Kotlin, REST APIs, Kafka, Git, Agile, Jira, Node, HTML, CSS
Experienced: LangGraph, LangChain, Claude Code SDK, MCP (Model Context Protocol) Servers, LLMs (Large Language Model), Graph-RAG, Gatling, Scala, Hazelcast Cache, Caffeine, Mockito, Junit, Oracle Database, Docker, Kubernetes, AWS, Postgres, SQL, NoSQL, Firebase, OpenAPI, AVFoundation, Vision Framework, OAuth, FIDO, ChatGPT

EXPERIENCE

Software Engineer (SWE II), Visa June 2022-Present

Built a 12-node LangGraph pipeline equipped AI agent with Claude Code SDK that automates JIRA epic decomposition into production-ready user stories, reducing planning time from 4-8 hours to minutes with 84-100% quality scores, used by 14 teams
Designed and implemented Spring Boot REST APIs in event-driven microservices for a 150M card checkout platform that supports 200 business flows per second with < 350ms P95 latency and 99.9% uptime SLA
Integrated FIDO2/Passkey authentication with cryptographic device binding into the checkout flow, enabling biometric-based payment verification tied to specific user devices
Developed a GDPR-compliant data anonymization system using Kafka event-driven processing to automatically anonymize PII for closed accounts with full audit trail compliance
Built an iOS credit card scanner using SwiftUI and Apple's Vision framework for real-time OCR and AVFoundation for camera processing, extracting card numbers and expiration dates via regex-based parsing
Created an observability dashboard in React and TypeScript providing real-time service health monitoring across 15+ deployment environments for a centralized configuration management platform
Implemented Visa Token Service (VTS) REST APIs for token provisioning, metadata retrieval, and cryptogram generation, enabling secure end-to-end testing of payment tokenization flows
Designed multi-tier caching architecture (Caffeine, NearCache, Hazelcast) in a shared commons library serving as the foundational dependency for wallet REST microservices
Built Gatling performance testing framework in Scala for load testing checkout and enrollment flows across Visa, Mastercard, and Discover with JWE encryption and FIDO2 passkey attestation
Implemented bidirectional card data synchronization in the Directory Service, handling encrypted cardholder data with PCI DSS field-level encryption across multiple data centers

Software Engineer Intern, Constant Contact Sept 2021-May 2022

Designed and implemented a folder tag system for email campaigns in React, used by 600,000 customers

Software Engineer Intern, Farmlink Project July-August 2021

Designed and implemented a dashboard and delivery system for food banks and suppliers in React to help deliver over 100M meals

Software Engineer Fellow, Major League Hacking (MLH), Github Education September-December 2020

Collaborated with different teams by participating in stand-ups and projects with MERN and MEAN stacks

PROJECTS

SummitBoard, NextJS, Full-stack March 2026

Implemented a team workspace web application (Notion + Jira tooling) using NextJS, React, and Firebase
Designed front-end components with Figma and implemented in Typescript

Cinched, Swift, NextJS, Full-stack Feb 2025

Implemented a cross-platform digital closet, resale, and social media web and iOS mobile application using React, NextJS, and Swift

FlyBye, NextJS, Full-stack May 2024

Implemented a plane spotting web application with OpenSky API and Firebase for photos

EDUCATION

Stetson University B.S. Computer Science | Information Systems May 2022

Software Development 1-2, Mobile Application Development, Web Application Development