

Andrew Thongsavath

jobs@athongsavath.com | athongsavath.com | U.S. Citizen

EXPERIENCE

Software Development Engineer II

February 2022 – Current

Bluecrew

Remote

- Worked on workplace-side of platform, which enabled job postings, client management, and admin tools
- Redesigned authorization system to enable scalable role-based access control (RBAC) with custom roles in a microservice architecture
- Rearchitected timekeeping system to improve scalability and compliance with a new data model and microservice
- Decomposed job postings, the core revenue-generating feature, from a monolith to a new microservice and data model to improve scalability and flexibility
- Initiated and executed the removal of over 300 endpoints from a legacy monolith, increasing the ease of migrating to microservices
- Led the migration of the frontend build system from Webpack to Vite, seamlessly transitioning away from server-side rendering, and implemented a new CI/CD pipeline, all without causing any service downtime
- Streamlined the frontend codebase by eliminating unnecessary complexity, merging multiple repositories into a single monorepo, introducing testing utilities, and adopting best practices
- Prevented Android App Store delisting with Android upgrades and a migration to Jetpack Compose
- Served as a Frontend Code Owner, reviewing pull requests, mentoring the team, and providing office hours
- Managed on-call responsibilities and conducted candidate interviews

Fullstack Software Engineer

February 2021 – February 2022

NCR Corporation

Atlanta, GA

- Worked on the next generation of hospitality's online ordering products using React, Node.js, and GraphQL
- Developed features for a restaurant management portal, which include store settings, enrollment, and security
- Presented and implemented architectural decisions in modernizing codebase and migrating to TypeScript

Fullstack Software Engineering Intern

June 2020 – August 2020

NCR Corporation

Atlanta, GA

- Led a group of 3 interns in the fullstack development of a monitoring dashboard for point of sale terminals
- Designed and implemented job scheduling and monitoring of uptime using ASP.NET Core and Quartz
- Implemented dashboard features for admin and customer users in React and TypeScript

Embedded Software Engineering Intern

August 2018 – December 2018

SpaceWorks Enterprises

Dunwoody, GA

- Researched and implemented forward error correction algorithms for satellite telecommunications
- Developed embedded software in FreeRTOS to packetize and transmit collected data
- Wrote and debugged drivers for UART and transceiver using STM32CubeMX and logic analyzers

PROJECTS

The PC Plug, LLC. | *Python, React, Docker, PostgreSQL, RabbitMQ, InfluxDB 2.0*

July 2017 – May 2019

- Algorithmically analyzed market data to determine the appropriate value of products in real time
- Used machine learning to identify arbitrage opportunities resulting in over \$100,000 of sales in 6 months
- Built various tools to verify market pricing algorithms and to label unstructured data for classification

RustOS | *Rust*

November 2020 – December 2020

- Built an Operating System that targets AArch64(ARM) architecture and runs on a Raspberry Pi 3 B+
- Developed drivers for the Raspberry Pi's timer, GPIO, UART and used them to develop a bootloader
- Implemented a FAT32 filesystem and a Unix-like shell to interact with the filesystem

TECHNICAL SKILLS

Languages: Java, Kotlin, TypeScript, Python, C, Rust, SQL, bash

Frameworks: Spring, React, Express

Tools: AWS, Git, Docker, CDK, GraphQL, PostgreSQL

EDUCATION

Georgia Institute of Technology, High Honors

December 2020

Bachelors in Mechanical Engineering, Minor in Mathematics

Atlanta, GA