Ryan Mavilia

ryanmavilia.com - ryanmavilia@gmail.com   San Diego, CA (relo/remote)

SKILLS

Languages: Java, Typescript, React, SQL, PHP, Python, HTML, & CSS

Technologies: Material UI, Twilio, Redis, Elasticsearch, Google PubSub, & Solr

EXPERIENCE

Flock Freight   San Diego, CA

Senior Product Engineer   September 2021 - March 2024

- Led creation of event driven shipment reservations using custom delay queue Pub/Sub events. This eliminated existing free for all booking system increasing per month profit by $130,000.

- Revamped our automatic shipment check-in time system to intelligently set milestones for shipment check-ins. Reduced manual clicks down 85% saving $80,000 of operating expenses per month.

- Developed carrier interface using React & Material UI with SMS reminders through Twilio integration reducing manual route planning by 25% (OpEx savings).

Product Engineer   July 2020 - September 2021

- Migrated carrier vendor accounts to a centralized Okta authentication system with RBAC (Role-Based Access Control), eliminating legacy token-based access.

- Redesigned shipment search system with dynamic UI and auto-complete filters. Transformation enabled admins to manage thousands of active shipments.

- Established mentorship program that paired up over half of our engineers with more senior members. Program accelerated skill development and promotions.

Wayfair - Search Data Pipeline   Boston, MA

Software Engineer II   December 2018 - July 2020

- Helped create an event driven data pipeline using Java, Kafka, and Aerospike. Pipeline quadrupled throughput increased revenue due to improved search results.

- Created a data pipeline manager UI with React, Java, and PHP. This replaced lengthy CURL requests with dynamically generated configuraton forms.

- Mentored a class of 40 new engineers in onboarding program.

The Efiia Group   Washington D.C

Software Development Intern   February 2016 - June 2017

- Created NIAP compliant iOS credential app using Swift for U.S. government.

- Wrote file sharing program for Department of Justice with encrypted data streams and user verification.

PROJECTS

Jinx - IRC Bot *Java, ImageIO, & Sockets*

- Chatbot featuring Markov chains, image saving, and persistent data structures.

NodeNotes *Node.JS, Express, Typescript, & MongoDB*

- Created website to write/share notes in Markdown with routing via Node.JS.

EDUCATION

University of Maryland, College Park, MD   **May 2018**
Bachelor of Science in Computer Science   Minor: Tech Entrepreneurship