

Ryan Mavilia (Mav)

ryanmavilia@gmail.com - 443-624-4265
San Diego, CA (open to relocation)

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

- Spearheaded a redesign of our shipment bidding system to utilize reservations over first come first serve using our ML models to find optimal bids. Led to an increase in company revenue by multiple percentage points.
- Built self-serve shipment coordination system for carriers. Integrated Twilio to enable SMS and phone call reminders. Project eliminated manual activities which decreased operating expenses and improved customer experience.
- Revamped our automated check-in time system to intelligently set milestones for shipment check-ins. Reduced operating expenses by \$80,000 by bringing manual clicks down 85% saving hundreds of hours of manpower per week.

Product Engineer

July 2020 - September 2021

- Established mentorship program that paired up over half of our engineers with more senior members. Program accelerated skill development and promotions.
- Redesigned shipment search system with dynamic UI and auto-complete filters. Transformation enabled admins to manage thousands of active shipments.

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 configuration 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 a secure file management app for iOS using Swift. The app used the Rebar framework, a platform for creating NIAP (NSA) compliant software.
- Wrote a file sharing program for the Department of Justice with defensive programming e.g. zeroing out data, encrypting streaming data, and verifying users.

PROJECTS

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

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

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

- Created website to write/share notes in Markdown and learn routing in Node.JS.

EDUCATION

University of Maryland, College Park, MD

Bachelor's of Science in Computer Science

Minors: Asian American Studies, Tech Entrepreneurship

Graduated: May 2018

GPA: 3.3