Armand Agopian

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EDUCATION

University of California, Santa Cruz — Mar 2023

Computer Science, BA — *Dean's Honors W23 - 3.85 GPA*

PROJECTS

WeatherML
- Developed on-demand, hyperlocal, long-term weather prediction models
- Models are created from a user's SMS using Twilio with location and prediciton date, sent to an Express server
- Location details are sent to a Google BigQuery Time Series model, including weather data from NOAA
- Each model is generalized within their S2 geocell, and cached to reduce computation costs

Yumbai - Online Marketplace
- Led a team of 5 developers to create an e-commerce platform organized using agile principles and microservices
- Built a GraphQL api for CRUD, live chat, image upload to Cloudinary, moderating, filtering, and sales statistics
- Fully authenticated and protected routes for separate User, Moderator, and Admin sites with SSO support
- Fully unit and e2e tested using Jest and Playwright
- Managed 13 containerized microservices using Docker and Postgres
- Implemented CI/CD using Github Actions, maintaining testinng, linting, and containzerization

FIRST Robotics Competition - Founder, Captain
- Founded and led a team of 40 students to design a 135-lb robot in 6 weeks to achieve FRC objectives at UC Davis each year for 4 years
- Guided team to develop the requirements and project scope
- Created autonomous algorithms in Java and OpenCV to perform required tasks duruing gameplay
- Implemented tools for efficient team collaboration using: GSuite, Slack, and Github
- Maintained team sponsorships with Google and Apple

Homelab
- Created a 4-node K3s cluster using Proxmox
- Ingress created using Traefik and cert-manager for public HTTPS access
- Maintained a Cisco router and wired ethernet throughout the house for multiple AP coverage
- Docker services including Tesla Dashcam, Grafana, Plex, Gitlab, and Minecraft

USPS Passport Appointment Finder
- Reverse-engineered the USPS API to create a platform to find and book passport appointments
- Server can recurseively search any distance or time, where the official website is limited to 5 nearest locations
- A Next.js site lits available appointments, where the user can directly book and receive an email confirmation

Networked 3D Printers
- Partnered with a high school to set up a 10-3D printer farm with automated networking and load balancing
- Each printer has a Raspberry Pi for printer control and network access with custom LED status indicators
- Express server load balances print queue, optimizing for certain features (dual extrusion, large print, etc)
- Created public React website for viewing print status and uploading print files

EXPERIENCE

Fulfillment Operations Team Leader — May 2019 – Sep 2022

Target
- Led a team of 140 employees to meet daily operational goals within a $100MM location within the online fulfillment departments
- Designed order process dashboards for company-wide, real-time tracking of key metrics, bringing guest wait times down by 250%
- Led store/department walks with district store director

TECHNICAL SKILLS

Languages: Java, Kotlin, Swift, JavaScript, TypeScript, Python, C/C++, SQL (Postgres), HTML/CSS
Web: React, Next.js, Node.js, Express, Jest, MaterialUI, GraphQL, REST
Mobile: Compose, JUnit, SwiftUI, React Native
Dev Tools: Kubernetes, Docker, Git, Google Cloud Platform, Github Actions CI