

# Armand Agopian

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## EDUCATION

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**University of California, Santa Cruz**

*Bachelor of Arts (B.A.), Computer Science*

Mar 2023

*Dean's Honors W23 - 3.85 GPA*

## EXPERIENCE

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**Founding Engineer**

Jan 2023 - Jul 2024

*Yumbai - Online Marketplace*

- Led a 5-member team to build an agile e-commerce platform using Next.js, TypeScript, Express, and PostgreSQL
- Developed a GraphQL Mesh API for live chat, AWS S3 image uploads, and sales statistics
- Added OAuth/SSO support with salted & hashed passwords and role-based authentication
- Designed high-throughput SQL databases to support seamless scaling across microservices
- Managed 13 containerized microservices via Docker, deploying on AWS EC2 instance
- Established CI/CD pipelines with GitHub Actions for testing, linting, and containerization
- Ensured 100% unit & e2e tested, WCAG-compliant accessibility, and AI translated internationalization

**Fulfillment Operations Lead**

May 2019 – Sep 2022

*Target*

- Directed a team of 140 employees to achieve daily operational objectives at a \$100MM, 160,000+ sqft retail store
- Spearheaded digital business expansion, resulting in a 200% increase in online sales
- Developed real-time, company-wide order process dashboards, reducing guest wait times down by 250%

**Founder, Captain, Mentor**

Nov 2016 - Jun 2019

*FIRST Robotics Competition*

- Founded a team of 40 students to design a 135-lb robot in 6 weeks for annual FRC objectives at UC Davis
- Developed autonomous algorithms in Java and OpenCV for gameplay tasks
- Designed robots with tank drive platforms, CNC-milled parts, and 3D-printed spares
- 4 robots performed ball shooting, gear depositing, box lifting, and rope climbing
- Secured team sponsorships from Google and Apple

## PROJECTS

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**WeatherML** | *Machine Learning, BigQuery, Express, Twilio*

- Developed on-demand, hyperlocal, long-term weather prediction models using user-provided SMS
- Processed location details with Google BigQuery and NOAA data to create Time Series models
- Generalized models within S2 geocells, cached to reduce computation costs

**Homelab** | *Proxmox, Kubernetes, Traefik, Docker, Raspberry Pi*

- Created a 4-node K3s cluster using Proxmox
- Configured ingress with Traefik and cert-manager for public HTTPS access
- Maintained a Cisco router and wired ethernet throughout the house for multi-AP coverage
- Docker services including Tesla Dashcam, Grafana, Plex, Gitlab, Factorio, and Minecraft
- Set up a 10-3D printer farm with remote monitoring, automated networking, and load balancing

**USPS Passport Appointment Finder** | *Python, REST, Next.js*

- Reverse-engineered the USPS API to create a platform to find and book passport appointments
- Enabled recursive searches beyond the official 5 nearest locations limit
- Created a Next.js site for listing appointments and booking with email confirmations
- Implemented CI/CD for testing and deployment to Vercel

## TECHNICAL SKILLS

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**Languages:** Java, Kotlin, Swift, JavaScript, TypeScript, Python, C/C++, SQL (Postgres), HTML/CSS

**DevOps:** Docker, Kubernetes, Proxmox, Traefik, Cisco, Google Cloud Platform, GitHub Actions CI

**Web/Mobile:** React, Next.js, Node.js, Express, Jest, MaterialUI, GraphQL, REST, XML, Compose, JUnit, SwiftUI