

# RYAN MAR

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## EDUCATION

**University of Southern California** | GPA: **3.98** | B.S. Computer Science May 2027  
Relevant Coursework: Data Structures and Algorithms, Linear Algebra and Differential Equations, Probability and Statistics

## EXPERIENCE

**Docflow Labs** | AWS, Fly.io, Playwright, PostgreSQL, React, Retool, Temporal, TypeScript Los Angeles, CA  
Software Engineer Intern June 2025 – August 2025

- Launched a **HIPAA-compliant** AI workflow platform using **AWS** (Bedrock, Lambda, and S3), writing **8,712** lines of code and enabling **95%** reduction in patient health document processing overhead
- Designed and developed encryption infrastructure and system using **Temporal** codec server deployed with **Fly.io**
- Implemented backend services using **TypeScript**, **Prisma**, and **PostgreSQL** to support scalable and audit-friendly data handling
- Integrated self-healing **Playwright** instances to power AI-driven data extraction and browser automation

**Department of Homeland Security** | Bash, Docker, Jira, YAML Washington D.C.  
Software Engineer Intern June 2024 – August 2024

- Collaborated with an **Agile SecDevOps** team developing a **CI/CD** project template for internal teams to ensure project security
- Attained a **37%** reduction in setup time by consolidating **SAST** scans into a flexible **Bash** script for GitLab pipelines
- Collaborated through pair programming, writing and updating **YAML** and **Bash** configurations across multiple pipeline stages, containerizing the pipeline using **Docker**

## EXTRACURRICULARS

**Association for Computing Machinery** | Figma, Git Merced, CA  
SIG Software Engineering Lead October 2024 – May 2025

- Formulated and led practical software engineering workshops, including the use and history of **Git**, **GitHub**, and **Agile**
- Engaged in outreach and diversity initiatives such as the Society of Women Engineers club's annual EYH conference

**Google Developer Group** | AWS, Jira, MySQL Merced, CA  
Vice President January 2025 – May 2025

- Facilitated **6** project groups with mentorship, recruitment, and funding, reducing ramp-up time by **33%**
- Organized large social and informational events for **100+** students, and bolstered interdisciplinary outreach

**Project Lead** September 2024 – December 2024

- Recruited **49** student developers from **6** universities; and led **3** sub-team leads for Quant, Machine learning, and Full-stack
- Designed **end-to-end system architecture** with sequence diagrams, use cases, and database schema to support the MVP
- Managed project planning using Atlassian **Jira** to assign and track tasks, progress, and blockers across multiple teams
- Deployed frontend, AI model, database, and data **ETL** pipeline using **AWS** (EC2, Lambda, RDS, and S3)

**HackMerced X** | 1st place - 2 awards - \$1,180 awarded March 2025

**HackMerced IX** | 2nd place - 2 awards - \$3,000 awarded March 2024

## PROJECTS (more at [ryanmar.vercel.app](https://ryanmar.vercel.app))

**MooGuard** | MongoDB, Next.js, TensorFlow March 2025

- **1st place** HackMerced X and Auth0 award
- Built an **IoT** digital livestock tagging system using a **TensorFlow** computer vision model on a Google Coral Dev Board
- Sends live data to **MongoDB** to be processed on **Next.js** app secured by **Auth0** API implementation
- Stores user accounts and agricultural data metrics for aggregation and analysis using **Google Firebase Cloud Firestore**

**Croppy Deals** | Firebase, React March 2024

- **2nd place** HackMerced IX and Best Use of Flow award
- Built an e-commerce website offering an alternative to contract farming while reducing transport-related carbon emissions
- Stores user accounts and agricultural data metrics for aggregation and analysis using **Google Firebase Cloud Firestore**

**Crescent Novels** | AWS, Django June 2020 – June 2023

- Developed full-stack platform for users to write and read novels using **Django** and deployed using **AWS** (EC2, Route 53, and S3)
- Grew website to **500+** active users through feature enhancements, active user engagement, and community events

## Certifications & Technical Skills

**AWS Certified Cloud Practitioner** May 2025

**Languages:** Bash, C, C++, CSS, HTML, Java, JavaScript, Python, SQL, TypeScript, and YAML

**Frameworks:** Django, Express, Next.js, Node.js, PyTorch, React, Spring.js, and Vue.js

**Developer Tools:** AWS, Azure, Docker, Firebase, GCP, Git, Kubernetes, MongoDB, NumPy, Pandas, Postman, and Stripe

**Interests:** Cafe Hopping, Cloud Computing, Karaoke, Photography, System Architecture and Design