

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 workflows platform using **AWS** (Bedrock, Lambda, and S3), 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, and containerized the pipeline with **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)

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