

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, PostgreSQL, React, TypeScript*

Los Angeles, CA

Software Engineer Intern

June 2025 – August 2025

- Built and improved internal tools using **TypeScript**, **React**, and **Node.js** to support web-based configuration and monitoring
- Developed automated **HIPAA-compliant** AI workflows using **AWS** (Bedrock, Lambda), enabling **85%** reduction in patient health document processing time
- Implemented backend services using **PostgreSQL**, supporting scalable, audit-friendly data handling across workflows
- Integrated **AWS Bedrock** to power AI-driven document classification and data extraction, increasing automation accuracy

Department of Homeland Security | *Bash, Docker, Jira, YAML*

Washington D.C.

Software Engineer Intern

June 2024 – August 2024

- Contributed to an **Agile SecDevOps** team developing a **CI/CD** project template for internal teams to ensure project security
- Enabled 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

- Designed 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

- Enabled **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, RDS, and Lambda)

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)
- 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++, 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, Git, Kubernetes, MongoDB, NumPy, Pandas, and Stripe

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