

# 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](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)
- 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