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 **90%** 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 **40%** 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 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 **30%**
- 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-based 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

Croppy Deals | *Firebase, React* — March 2024
- **2nd place** HackMerced IX and Best Use of Flow award for best crypto **blockchain** integration
- 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 over **500** active users through feature enhancements, active user engagement, and community events

CERTIFICATIONS AND TECHNICAL SKILLS

AWS Certified Cloud Practitioner — May 2025
Languages: C, C++, Java, JavaScript, Python, SQL, TypeScript, and YAML
Frameworks: Django, Next.js, React.js, and Vue.js
Developer Tools: AWS, Docker, Firebase, MongoDB, and Stripe

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