Ryan Mar

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EDUCATION

UC San Diego | GPA **4.00** | B.S. Computer Science   September 2025 - June 2027
UC Merced | GPA **3.98** | B.S. Computer Science and Engineering   August 2023 - May 2025
Relevant Coursework: Data Structures and Algorithms, Linear Algebra and Differential Equations, Probability and Statistics

EXPERIENCE

Google Developer Group | *AWS, Jira, MySQL*   September 2024 - December 2024
Project Lead   *Merced, CA*
- Recruited **49** student developers from **6** universities; designed the organizational structure, defined roles, and appointed **3** sub-team leads for functional areas (Quant, Machine learning, Full-stack)
- Designed **end-to-end system architecture** with sequence diagrams, use cases, and database schema to support the MVP and second-phase features
- Managed project planning using **Jira** to assign and track tasks, progress, and blockers
- Deployed frontend, ML model, database, and infrastructure using **AWS** (EC2, RDS, and Lambda)

Department of Homeland Security | *Bash, Docker, YAML*   June 2024 - August 2024
Software Engineer Intern   *Washington D.C.*
- Contributed to an **Agile DevOps** team developing a **CI/CD** project template for internal DHS teams
- Enabled a **40%** reduction in setup time for internal DHS teams 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**
- Participated in sprint planning by referencing prior tickets and offering input for future tasks

EXTRACURRICULARS

Google Developer Group   January 2025 - Present
Vice President   *Merced, CA*
- Enabled **6** project groups with mentorship, project recruitment, funding, and weekly meetings
- Organized large social and informational events, and bolstered interdisciplinary outreach

Association for Computing Machinery   October 2024 - Present
SIG Software Engineering Lead   *Merced, CA*
- Designed and led practical software engineering workshops, including **Git**, **GitHub**, and **Agile**
- Engaged in initiatives such as the Society of Women Engineers club's annual EYH conference

HackMerced X 1st place - 2 awards - $1,180 awarded   2025
HackMerced IX 2nd place - 2 awards - $3,000 awarded   2024

PROJECTS (more at ryanmar.vercel.app)

MooGuard | *MongoDB, Next.js, TensorFlow*   March 2025
- **1st place** HackMerced X and Auth0 award
- Trained parallel **TensorFlow** machine learning models for object detection and image classification
- 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
- Stores user accounts and agricultural data metrics using Google **Firebase**

Crescent Novels | *AWS, Django*   June 2020 - June 2023
- Developed full-stack features, functionality, and user interaction features using **Django** and deployed website on **AWS** (EC2)
- Grew website to over **500** active users

CERTIFICATIONS AND TECHNICAL SKILLS

AWS Certified Cloud Practitioner   May 2025 - May 2028
Languages: C, C++, JavaScript, Python, SQL, TypeScript, and YAML
Frameworks: Django, Flask, Next.js, React.js, TensorFlow, and Vue.js
Developer Tools: AWS, Docker, Firebase, MongoDB, OpenCV, Pandas, PyTorch, and Stripe

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