Ryan Mar

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EDUCATION

UC Merced, Merced, CA   May 2026
GPA **3.96** | Bachelor of Science in Computer Science and Engineering

TECHNICAL SKILLS

Languages: C, C++, CSS, HTML, Java, JavaScript, Python, SQL, TypeScript, WASM, and YAML
Frameworks: Bootstrap, Django, Django REST, Flask, Next.js, React.js, Tailwind CSS, TensorFlow, and Vue.js
Developer Tools: AWS, Cloud Firestore, CUDA, Docker, Firebase, OpenCV, Pandas, PyTorch, and Stripe

EXPERIENCE

Department of Homeland Security   June 2024 - August 2024
Software Engineering Intern   *Washington D.C.*
- Collaborated within an **Agile** team, leveraging **Jira** for sprint planning, while utilizing iterative development and continuous feedback to enhance **CI/CD** processes and **Docker** container management
- Refactored GitLab **CI/CD** pipeline by moving **3** severity scans to an external shell script
- Implemented a new pipeline stage in GitLab **CI/CD** to automatically comment on existing vulnerabilities in merge requests, enhancing visibility of security issues during code reviews

PROJECTS

DjN Data Visualizer | *Django, Docker, Next.js*   September 2024
- Frontend uses **TypeScript**, **Next.js**, **Chart.js**, along with **Redux** for state management
- Implements **Django REST framework** to serve data to the frontend via API endpoints
- Containerized the application with **Docker** for automated deployment

Croppy Deals | *Firebase, React*   March 2024
- *2nd place HackMerced IX*, *Best Use of Flow* award for best crypto **blockchain** integration
- Stores user accounts and agricultural data metrics using Google **Firebase**

Jamster | *Firebase, React*   December 2023
- Custom browser extension grabs YouTube Music URL and saves link to Google **Firebase**
- YouTube Music listen along **React** App pulls the data from Google **Firebase** and plays the song

ByTech | *Firebase, Next.js, OpenAI, React, Tailwind*   August 2023
- Allows Computer Science teachers to create classes and assignments, and uses **OpenAI** API to automate creation of assignment test cases
- Utilizes Google **Firebase** for storing accounts, classes, and assignments
- Compiles **Python** into **WASM** to run in browser

WildEyeAI | *Flask, Next.js, React, Tailwind, TensorFlow*   July 2023
- AI-based wildlife protection project
- Identifies movement image subtraction techniques, submits frames with detected movement to AI image classification model, and sends a POST request to a **Flask** server to store the image
- Trained using the **TensorFlow** Inception_V3 model

Crescent Novels | *AWS, Django*   June 2020 - June 2023
- Website for young writers to share their stories and communicate with their readers
- Developed full stack features and functionalities using **Django**
- Deployed website using **Amazon Web Services** (AWS) on EC2 instances
- Grew website to over **500** active users

AWARDS

- **National Merit Scholarship Finalist**   2023
- **HackMerced IX** - 2nd place - $1000 awarded   2024