

# 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, 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** DevOps 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

- Utilizes **TypeScript**, **Next.js**, and **Chart.js** on the frontend, 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

- Retrieves YouTube Music URL via browser extension and saves link to Google **Firebase**
- Pulls data from Google **Firebase** and plays the song on a **React** App

ByTech | *Firebase, Next.js, OpenAI, React, Tailwind*

August 2023

- Enables 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 a browser

WildEyeAI | *Flask, Next.js, React, Tailwind, TensorFlow*

July 2023

- Protects endangered wildlife with AI-based data collection
- Identifies movement using image subtraction techniques, submits frames with detected movement to AI image classification model, then 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

- Enables 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