

Ryan Mar

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EDUCATION

UC Merced, Merced, CA

GPA 3.96 | Bachelor of Science in Computer Science

May 2027

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Python, C++, SQL, HTML, and CSS

Frameworks: React.js, Vue.js, Next.js, TensorFlow, Tailwind, Bootstrap, and Django Python

Developer Tools: OpenCV, Flask, PyTorch, Pandas, CUDA, and Firebase

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

Croppy Deals | *Firebase, React*

March 2024

- 2nd place HackMerced IX, Best Use of Flow award for best crypto **blockchain** integration
- Aggregates agricultural data metrics to assist with determining future crop demand and rotations
- Provides farmers with independent point of sale integration to compete with contract farming

Jamster | *Firebase, React*

December 2023

- YouTube Music listen along website
- Custom browser extension grabs YouTube Music URL and saves link to Google **Firebase**
- **React** App pulls the data from Google **Firebase** and plays the song.

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

August 2023

- Classroom platform focused on Computer Science
- Allows teachers to create classes for students to join and assign assignments and 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