

# Ryan Mar

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## EDUCATION

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UC Merced, Merced, CA

GPA 3.96 | Bachelor of Science in Computer Science

## TECHNICAL SKILLS

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**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:** Stripe, OpenCV, Flask, PyTorch, Pandas, CUDA, and Firebase

## EXPERIENCE

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**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

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**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

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