Moises Ortega

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EDUCATION

California State University, Stanislaus   **Turlock, CA**
Bachelor of Science in Computer Science   *Expected Graduation: December 2021*

EMPLOYMENT

E. & J. Gallo Winery   **Modesto, CA**
Programmer Analyst Intern - (Software Development)   *June 2020 – August 2020*
- Architected and built a pipelined system in Python to calculate moisture index, which resulted in farmers being able to efficiently determine the amount of water needed for a higher crop yield
- Implemented data persistence with a PostgreSQL backend database and file storage with AWS S3, allowing the frontend to display a collection of rasterized data
- Presented proof-of-concept demo application to executive leadership to demonstrate and identify the need for a streamlined process to boost crop yield

SOFTWARE PROJECTS

Crowdsourced Map Application   *Technologies: JavaScript, Firebase, GCP*
- Built a real-time web application with Google Firebase for data synchronization, which allowed for a collaborative experience for users annotating the map with location-dependent data
- Enabled offline persistence by storing data to local disk then merging the data once the client regains connection to the database
- Communicated with the GCP API through JSON and subscribed to changes in the database to ensure the map reflected data in real time
- Awarded Best Use of Tech Domain at the StanHacks annual hackathon

Rat in a Maze   *Technologies: C++*
- Wrote a recursive depth-first-search algorithm that found several paths for a rat to find the exit in a maze with obstacles
- Parsed data text files to allow the user to upload their own configuration of the maze and modeled the string input with a 2D array

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, C++, HTML, CSS, SQL
- **Technologies:** Amazon Web Services, React, Node.js, Git, GCP
- **Databases:** PostgreSQL, NoSQL, Firebase

HONORS AND AWARDS

- **Best Use of Tech Domain:** Awarded at StanHack's first annual hackathon for building a project that registered the best domain name