

# Moises Ortega

Phone Number: (209)-918-5319 | Email: [ortega.moises@gmail.com](mailto:ortega.moises@gmail.com)

GitHub: <https://github.com/moisesortega> | LinkedIn: <https://www.linkedin.com/in/moisesortega/>

## EDUCATION

---

**California State University, Stanislaus**  
*Bachelor of Science in Computer Science*

**Turlock, CA**  
*Expected Graduation: December 2021*

## EMPLOYMENT

---

**E. & J. Gallo Winery**  
*Programmer Analyst Intern - (Software Development)*

**Modesto, CA**  
*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