

# Juan Linares

## Software Engineer

LA County

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## TECHNICAL SKILLS

- **Programming Languages:** C++, Python
- **Web Development:** Flask, HTML, CSS, JavaScript, SQLAlchemy
- **Tools & Platforms:** GitHub, Flask-WTF, Flask-Login, Flask-Mail
- **Databases:** SQLite, SQLAlchemy, Postgresql

## PROJECTS

### Community Garden Website

*Technologies: Flask, SQLAlchemy, Flask-WTF, Flask-Login, Flask-Mail, HTML, CSS, JavaScript*

- Developed a full-stack web application for managing community gardens, allowing users to register, volunteer, and donate.
- Implemented user authentication and authorization using Flask-Login, ensuring secure access to user profiles and garden management.
- Designed a database schema using SQLAlchemy to manage users, gardens, and volunteer relationships.
- Integrated geolocation services using the Geopy library to map garden locations
- Created a responsive user interface with Flask-WTForms for user registration, garden registration, and volunteer sign-ups.
- Utilized Flask-Mail to send automated email notifications to garden administrators when users signed up to volunteer.

### Flask Real-Time Chatroom

*Technologies: Python, Flask, Flask-SocketIO Javascript, HTML, CSS*

- Developed a real-time chat application using Flask and Socket.IO, enabling multiple users to communicate in shared rooms
- Implemented room creation/joining system with unique codes and session management
- Designed a responsive front-end using HTML/CSS with error handling for user inputs
- Utilized WebSockets for bidirectional client-server communication
- Managed server-side state to track active rooms, members, and message history
- Deployed application with proper session handling and security considerations

## EDUCATION

**California State University, Fullerton** - Computer Science

GPA 3.24

*Expected Graduation - December 2026*

**Relevant Coursework:** Data Structures & Algorithms, Fundamentals of Software Engineering, Frontend Development and Assembly