

# Peter D. West

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## Education

### Bachelor of Science in Computer Science

August 2023 - May 2025

*California State University*

Fullerton, CA

Graduated May 2025 | GPA: 3.72

## Skills

**Languages:** Python, C++, Java, JavaScript, Ruby, TypeScript, HTML/CSS

**Frameworks/Libraries:** Django, React, Node.js, Express.js, Ruby on Rails, Tailwind, Unity

**Databases:** MySQL, PostgreSQL, SQLite

**Tools:** Git, GitHub, VS Code, Visual Studio, Docker, PyCharm, Jira, Confluence, Auth0

## Projects

### Full-Stack College Program Management System

*Django, SQLite, HTML/CSS*

- Built comprehensive web application for semester-based college program administration with role-based authentication for staff and students
- Implemented automated semester transition workflows with data cleanup validation and admin reassignment notifications
- Designed normalized database schema for events, attendance tracking, student majors, and semester management
- Collaborated in 5-person Agile development team using Jira for sprint planning and Confluence for documentation

### Meal Planning Web Application

*React, Express.js, Node.js, PostgreSQL, TypeScript*

- Engineered full-stack meal planning application allowing users to discover, save, and organize recipes into a weekly schedule
- Designed and implemented RESTful API with Node.js to manage CRUD operations for user and recipe data, securing endpoints by integrating the Auth0 identity platform.
- Constructed dynamic and responsive user interface with React hooks for state management, enabling seamless asynchronous communication with the back-end API

### Chat Application

*C++*

- Engineered multi-threaded client application supporting concurrent message sending and receiving via UDP sockets
- Implemented asynchronous message handling with dedicated receive thread for real-time chat display updates, addressing network protocol limitations and concurrency challenges

## **FTP Client and Server**

### *Python*

- Developed a functional FTP server and client application in Python, enabling users to remotely upload (put), download (get), and list (ls) files, demonstrating proficiency in network programming and client-server architecture.
- Implemented separate control and data channels for efficient and reliable file transfer, showcasing an understanding of network communication protocols and data handling.

## **Experience**

### **Operations Manager**

March 2020 - Present

*Exceltox Laboratories*

Irvine, CA

- Integrated laboratory information systems with electronic health records, ensuring seamless data interoperability
- Reduced operational overhead by 83% through systematic process optimization and workflow standardization

### **Student Software Developer - Capstone Project**

August 2024 - May 2025

*WiCSE*

Fullerton, CA

- See Full-Stack College Program Management System project above