

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