

Alexander Specht

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EDUCATION

California Polytechnic State University

BS in Computer Science, GPA: 3.69

San Luis Obispo, CA

Sep. 2021 – June 2025

- Coursework: Design and Analysis of Algorithms, Database Systems, Software Engineering, Systems Programming

EXPERIENCE

Student Trainee - Planning Division

United States Army Corps of Engineers

June 2022 – June 2024

Sacramento, CA

- Customized **Web Intelligence** documents to retrieve and consolidate relevant project statistics and analytics
- Developed **data visualization reports** for project analysis through integrating the **Enterprise Data Warehouse** and **Power BI**
- Automated the compilation and distribution of tailored project data reports for various team supervisors
- Awarded \$1200 bonus from the **2023 USACE Performance Award**

Part-Time Software Tester

Tapestry Solutions, a Boeing Company

July 2024 – Present

San Luis Obispo, CA

- **Debugged cross-software interactions** of logistics, planning, and distribution applications
- Written manual and automated test cases for **regression testing** for verifying newly released versions
- Collaborated with other part-time testers for **paired testing** of developer-requested bug reports
- Assisted with documenting issues reported during a dedicated government inspection period

PROJECTS

Marketplace Web Application (Full Stack)

React, Express, CSS, AWS, Supabase, Azure

Software Engineering I, II

- Developed a multi-page peer-to-peer marketplace for college students to sell and buy directly
- Migrated local MySQL database to cloud **PostgreSQL database** to contain listing and user information
- Implemented **AWS service** to upload and store user-uploaded images for marketplace listings
- Hosted public front-end and back-end repositories in **Microsoft Azure** with a GitHub **CI/CD** pipeline
- Followed **Agile workflow** through GitHub Projects alongside team of 4.

Store Application Backend System

Python, PostgreSQL, FastAPI, Docker

Database Systems

- Cooperated with other students to develop a backend service for a hypothetical shoe reselling company
- Isolated database logic through data access layers to improve migration and scaling capabilities
- Implemented suite of API endpoints for seller verification and rating systems
- Optimized SQL queries through indexing and load testing to improve database performance

Easy Eats Cooking Companion

Figma

UXFest

- Designed a user interface for a cooking assistant app emphasizing accessibility in a team of three within 24 hours
- Constructed a design layout and style to address common physical and mental accessibility issues of the elderly
- Developed a case study on a hypothetical user constructed from research to isolate specific areas for improvement
- Incorporated an AI-driven feature to tailor recipes to user preference while encouraging culinary exploration

SKILLS

Languages: Python, Java, C, SQL (Postgres), JavaScript, HTML/CSS

Technologies: React, Node.js, FastAPI, UX/UI

Other: Git, Docker, VS Code, Figma, Power BI