

# JAEHEE JUNG

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## EDUCATION

### **Bachelor of Science (B.S.) in Computer Science**

**California State University - Sacramento, Sacramento, CA**

**Expected Graduation: Dec 2025**

**GPA: 3.8**; Dean's List: Spring 2024 - Present

Relevant Coursework: Database Management Systems, Data Structures & Algorithm Analysis, Computer Software Engineering, Computer Organization, Number Theory

### **Sierra College, Rocklin, CA**

**Graduated: Dec 2023**

**GPA: 3.9**; President's Honor Roll: Fall 2020 - Fall 2023

Relevant Coursework: System Programming with C, Introduction to Unix/Linux

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## TECHNICAL SKILLS

Python, SQL (MySQL, SQLite), C++, C, RESTful APIs, FastAPI, Docker, Data Management, UNIX/Linux, GitHub, Java

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## PROJECT EXPERIENCE

### **Dockerized CRUD Application**

**November 2024 - Current**

- Created a user-friendly web application that lets people organize datasets by adding, viewing, editing, or deleting information, using FastAPI to handle the behind-the-scenes processing and entries and MySQL to store the data.
- Packaged the application into a portable format using Docker so that it can run seamlessly on any computer without extra setup.
- Made it easier to update and fix the application by organizing it into containers, reducing technical issues during deployment.

### **Text Embedding-Based Item Recommendation**

**July 2024**

- Designed a system that suggests items to users by understanding the meaning of product descriptions, using OpenAI's tools and Pinecone to organize the data.
- Built a smooth connection between the system and users with Python and FastAPI for data handling and React for a user-friendly interface.
- Teamed up with members on GitHub to organize project files and conduct extensive testing for the system functionality.
- Delivered a functional prototype that demonstrated the potential of advanced algorithms to enhance user experiences.

### **Binary Search Tree Implementation**

**April 2024**

- Developed a binary search tree data structure in C++ to efficiently store and retrieve data using a custom node class.
- Implemented core functionalities including adding, searching, and traversing nodes in multiple orders (e.g., in-order traversal).
- Added an ASCII art visualization of the tree to aid debugging and educational demonstrations.

### **Budgeting App**

**November 2023**

- Co-developed a budgeting app to help users easily track their record of spending and manage their account info.
  - Used BASH to allow users to input their transactions, SQLite to store the data securely, and Python to process and organize the information.
  - Improved the app's usability by automating data organization workflows and creating clear, easy-to-understand summaries.
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## WORK & EXTRACURRICULAR ACTIVITIES

### **Society of Hispanic Professional Engineers (SHPE)**

**January 2024 - Current**

- Collaborated with a team during a 7-day hackathon to conceptualize and design a software solution, addressing technical challenges and presenting a detailed proposal to judges.
- Attended networking events to connect with industry professionals and gain insights into computer science careers.

### **Warehouse Associate (Temporary), Coupang, South Korea**

- Operated conveyor belt systems to sort packages accurately and transported inventory efficiently while ensuring workplace safety by adhering to strict protocols.

### **Sierra College Computer Science Club**

**August 2023 – December 2023**

- Participated in the Sierra College Programming Exhibition, using C++ to solve advanced data structure and algorithm challenges independently.

### **Convenience Store Clerk, 7-Eleven, South Korea**

**February 2020 – August 2020**

- Managed cash registers, organized inventory, and ensured compliance with promotional pricing while providing quality customer service.