**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: 3.9**; 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: 3.8;** President's Honor Roll: Fall 2020 - Fall 2023

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

### **TECHNICAL SKILLS**

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

### **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.

**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.