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, Number Theory, Computer Software Engineering, Computer Organization
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

TECHNICAL SKILLS

Python, SQL(MySQL, SQLite), FastAPI, Docker, Git, Agile Software Development, Java, C++, C, Linux/Unix

PROJECT EXPERIENCE

Dockerized CRUD Application **November 2024 - Current**

- Built a simple web application prototype to handle data entry, storage, and retrieval using FastAPI for backend processing, MySQL for structured data management, and minimal HTML for testing.
- Containerized the application with Docker for consistent deployment across different environments.
- Explored efficient data handling compared to a previous class project by leveraging FastAPI's lightweight framework and Docker's deployment flexibility.

Text Embedding-Based Item Recommendation **July 2024**

- Participated in a TikTok Hackathon, contributing to the development of a text-based item recommendation system by leveraging OpenAI's tools to analyze product descriptions and utilizing Pinecone for efficient vector storage and similarity-based retrieval.
- Maintained the GitHub repository by writing setup instructions on the README file and tracking contributions, facilitating team collaboration and onboarding.
- Observed and gained insights into how FastAPI handled backend processing, Python managed data operations, and React built the user interface to create a functional recommendation system.
- Provided setup instructions that enabled all team members to configure and test the project, reducing setup issues and improving the development workflow.

Binary Search Tree Implementation **April 2024**

- Developed a Binary Search Tree (BST) in C++ implementing a custom node class to efficiently store and retrieve hierarchical data, using Object-Oriented Programming (OOP).
- Implemented core functionalities including adding, searching, and traversing nodes in multiple orders (e.g., in-order traversal) to support structured data retrieval.
- Designed and integrated an ASCII-based tree visualization, simplifying debugging for complex tree structures and aiding educational demonstrations.

Budgeting App **November 2023**

- Co-developed a budgeting app on Linux to help users easily track and manage their record of account info.
- Used BASH to enable transaction input, 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 on designing an AI-powered content feed system for decentralized social media, overcoming challenges, and earning positive feedback in a 7-day hackathon.

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

- Retrieved and transported items by following mobile app instructions, scanning barcodes, and placing them in designated locations, while also sorting packages from conveyor belt zones based on destination tags.

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 and recorded cash register stock, organized inventory, updated price tags monthly, and assisted customers.