

Joseph Kang

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Education

Missouri University of Science and Technology

Computer Engineering B.S, Computer Science Minor

- **GPA: 3.35/4.0 (Spring 2024)**
- Member of Delta Sigma Phi Fraternity, IEEE, Asian American Association, Ceramic Artists of S&T

Work Experience

AECI

Engineering Intern

Springfield, MO

May 2023 – August 2023

- Enhanced existing software in C++ to optimize the shortest path identification for transmission lines, resulting in a time reduction of 5+ seconds in processing time, thereby improving operational efficiency
- Contributed to project development aimed at achieving complete power restoration in Missouri using modeling and voltage methodologies leading to an increase in data accuracy of over 50%
- Updated and maintained multiple Python scripts to streamline restoration procedures for transmission systems

AMEREN

Engineering CO-OP

Saint Louis, MO

May 2022 – December 2022

- Developed and implemented Python scripts to efficiently organize and input data into a shared database, resulting in significant time savings of over 2 hours of manual labor enabling team members to focus on critical tasks
- Analyzed and delivered comprehensive data insights to over 100 stakeholders through a web interface
- Collaborated with clients to evaluate and review over 10 specific classifications of data for data entry
- Utilized Jira with Kanban and Scrum methodologies for streamlined project management and task tracking

Havener Center

Building Operator Supervisor

Rolla, MO

Fall 2021 – December 2023

- Managed day-to-day operations at the Havener center, overseeing a team of 4+ staff members responsible for efficient room setups through effective communication and team coordination
- Coordinated weekly with fellow supervisors to enhance building operations and enhance customer satisfaction.
- Provided exceptional customer service to over 1000 students and staff by providing essential information

Projects

Competitive Chess AI (C++, Docker)

- Engineered a Chess AI utilizing heuristic methods and complex algorithms, capable of autonomously determining optimal moves in less than 2 seconds, showcasing rapid strategic decision-making
- Optimized performance through testing and refinement, surpassing other other Chess AI counterparts in student matches involving over 150 participants

Integrated Environmental Sensor & Mobile App (Arduino, C/C++, Flutter)

- Designed an environmental sensor device that measures and returns air quality, light density, temperature, and humidity from the surrounding environment, achieving over 95% accuracy rate in data collection
- Engineered a user-friendly mobile application using Flutter, enabling real-time visualization and analysis with integrated internet connectivity, while efficiently refreshing data every 5 seconds for timely updates.

Skills & Tools

- Languages: Python, C/C++, C#, Visual Basic, Bash/PowerShell, SQL, HTML, CSS, JavaScript, Typescript, Java
- Tools: Git, Jira (Kanban, Agile, Scrum), Docker, Linux, MySQL, Pandas, Power Bi, Tableau, Flutter, DBvisualizer, Excel, Jupyter, Hadoop, Bootstrap
- Certifications: AWS Cloud Practitioner

