JOSEPH JEONG

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EXPERIENCE

Amazon　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　June 2025 – Aug 2025
Incoming Software Developer Intern　　　　　　　　　　　　　　　　　　　　　Minneapolis, MN
- Set to contribute to the development of scalable and distributed systems
- Will collaborate with backend teams to build cloud-based infrastructure solutions

Class Transcribe – University of Illinois at Urbana Champaign　　　　　　　Aug 2024 – Dec 2024
Undergraduate Independent Research Study　　　　　　　　　　　　　　　　　Champaign, IL
- Optimized Word Error Rate (WER) for transcription tasks using the Whisper model by evaluating ASR data
- Fine-tuned the Whisper model with PyTorch and GPU acceleration to improve transcription accuracy
- Enhanced model training efficiency by optimizing hyperparameters and reducing GPU memory usage on specialized datasets

ATLAS University of Illinois at Urbana Champaign　　　　　　　　　　　　　May – Aug 2024
Data Analyst Intern　　　　　　　　　　　　　　　　　　　　　　　　　　Urbana, IL
- Analyzed energy data across campus buildings, identifying usage patterns and reducing reporting errors by 15% through data cleaning and anomaly detection
- Built linear regression models to predict monthly energy consumption with a 92% accuracy rate, enhancing forecasting and reducing budget variance by 10%
- Developed interactive dashboards that decreased manual reporting efforts by 20% and improved decision-making speed for energy optimization strategies

EDUCATION

University of Illinois at Urbana Champaign　　　　　　　　　　　　　　　　May 2025
Bachelor of Science in Computer Science & Statistics
- **Relevant Coursework:** Object Oriented Programming, Data Mining, Computational Models & Dynamic Programming, Data Structures, Computer Systems, Statistical Modeling, Probability Theory

PROJECTS

llini-Illness
- Engineered a robust backend for a web application aimed at chronic illness patients, facilitating daily logging of symptoms
- Designed and implemented SQL triggers within the database to automate notifications to physicians regarding new or changed symptoms, significantly improving the responsiveness and efficiency of medical care
- Utilized Flask to create API endpoints for data transactions between the frontend and backend, ensuring seamless data flow and enhancing user experience

Mandelbrot Set Visualization and Caching System
- Implemented MinIO on AWS for efficient image caching, significantly improving load times and responsiveness
- Crafted API endpoints for robust data management between the app's frontend and backend on AWS, ensuring a seamless user experience.
- Developed a Flask-based backend for the Mandelbrot Set Visualization app, enabling enhanced scalability and dynamic user interactions

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C++, C, R, SQL, Swift
Libraries: Git, Node.js, React, MySQL, MongoDB, Tableau, Flask, AWS, Docker, Linux, HTML/CSS