JOSEPH JEONG

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EXPERIENCE

Amazon Web Services June 2025 – Current
Software Developer Engineer Minneapolis, MN

- Developed and optimized AI-driven solutions leveraging AWS services such as SageMaker, Lambda, and EC2 to automate data processing workflows and improve model deployment efficiency by 30%.
- Collaborated cross-functionally with product managers and designers to ensure seamless integration across platforms
- Conducted A/B testing on multiple UI and performance variants, leading to data-driven improvements that benefited over 500,000 truck drivers worldwide

JPMorgan & Chase January 2025 – May 2025
Software Developer Engineer Intern Chicago, IL

- Analyzed mortgage data for 10,000+ customers, identifying usage patterns and reducing reporting errors by 15% through comprehensive data cleaning and anomaly detection.
- Developed and deployed linear regression models to predict monthly and annual yields with 92% accuracy, improving forecasting precision and decreasing budget variance by 10%.

Class Transcribe – University of Illinois at Urbana Champaign Aug 2024 – Dec 2024
Undergraduate Independent Study Experience 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 – July 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

Georgia Institute of Technology
Master of Science in Computer Science - Deferred enrollment

University of Illinois at Urbana Champaign May 2025
Bachelor of Science in Computer Science & Statistics, GPA 3.89/4.00

PROJECTS

Ilini-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