

Jerome Siljan

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Summary:

Self-motivated Software Engineer with a strong passion for continuous learning and a knack for solving complex problems. Proficient in Python, JavaScript (Node.js, React.js), and cloud technologies (Azure), with hands-on experience building scalable AI solutions and integrating APIs. Adept at quickly mastering new tools and technologies to deliver impactful, innovative solutions.

Technical Skills:

Languages: Python, Javascript (Node.js, React.js), C++, Java, SQL.

Tools/Libraries: Express.js, Flask, TensorFlow, Pyspark, MongoDB, Microsoft SQL Server (MSSQL), SQLite3, Docker, AutoSys, Azure, Git, BitBucket, GitHub, Confluence, Supertest, Tableau, Linux, CLI tools.

Education:

Bachelor's of Science in Computer Engineering at The University of Texas at Arlington – Spring 2024

Work Experience:

Photon – Full Stack Developer (Consultant)

- Engineered and implemented a code translation application that converts Vue to React using OpenAI and Google Gemini, ensuring consistent responses by designing a multi-step pipeline for accuracy and efficiency.
- Optimized AI output by using a fail-fast method, where models first analyzed code functionality and proposed architecture before generating code, reducing token wastage and improving result quality.
- Integrated OpenAI with Azure's AI Foundry to deploy scalable, cloud-based AI solutions for code translation and other client projects.
- Conducted product research and presented findings to clients, recommending the best-fit AI solutions to meet specific project needs.

Buxtonco – Data Analyst

- Developed custom analytics solutions using consumer intelligence to aid in real estate and marketing decisions for retail, restaurant, and healthcare clients to optimize their potential and performance.
- Implemented a feature enabling data analysts to craft custom SQL queries within a Python framework. This innovation bridged the gap between analysts and the data pipeline, greatly boosting productivity.
- Analyzed consumer data and site location data for patterns of behavior and other qualitative findings.

Citigroup – PBWMT Summer Analyst

- Developed a high-impact program that integrated Impala querying functionality into an HDFS database, processing approximately 20 thousand records daily using AutoSys.
- Collaborated with a team to realize a document scanning and OCR application that streamlines the credit card application process for users at Citi.
- Led an overhaul of legacy code, replacing hardcoded implementations with a configuration file based solution to significantly improve readability and maintainability.

Projects:

Finance Filter

- Built a Python application with a Flask backend and a React frontend, creating a seamless user experience to combine and analyze credit card reports from multiple providers.
- Designed a graphical interface using PrimeReact, enabling users to easily sort, filter, and separate financial transactions for improved clarity and decision-making.
- Utilized pandas to process transaction data and generate detailed reports, which were delivered as Excel sheets for easy sharing and review.
- Leveraged React's useState and useEffect to manage asynchronous data loading, ensuring smooth interactions and dynamic updates within the application.