Sam F. Jagan Mohan

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Education

University of California, Davis — Davis, CA
Bachelor of Science in Computer Science — *Sept. 2021 – March 2023*

Technical Skills

Languages: Python, JavaScript, HTML/CSS, C#
Cloud Platforms & Services: Azure Cloud, Azure DevOps, Azure OpenAI Studio, Azure Machine Learning Studio
Frameworks & Libraries: React, Angular, .NET, Redux, Node.js/Express
Developer Tools: Github, Jira, Visual Studio, VS Code, PyCharm, Jupyter Notebooks
Security Practices: SonarQube, Azure Code Scan

Experience

Robert Half — Apr. 2023 – Present
Software Engineer — *Menlo Park, CA*

- Lead development of a custom GPT integration platform, creating specialized assistants that interface with internal applications and improve workflow efficiency by 55% across various internal departments.
- Led development of a hybrid content recommendation system for an internal business application, implementing personalization logic that improved content discovery and user engagement metrics during beta testing.
- Built RESTful APIs and service middleware to connect GPT capabilities with existing enterprise systems, maintaining 99.9% up-time for business-critical integrations
- Established coding standards and review processes for service integrations, including automated testing pipelines and documentation requirements for API endpoints.

Software Engineer Intern — Jun. 2022 – Mar. 2023

- Developed and implemented frontend updates for two key applications using React, Angular and C#/ASP.NET Core to enhance and simplify data tracking processes for business owners.
- Developed and executed a proof-of-concept for optimizing data lake content migration between cloud services, achieving a 25% reduction in data transfer times by leveraging Azure DevOps CI/CD pipelines and Azure Data Factory for streamlined process automation.
- Actively participated in Agile ceremonies while maintaining comprehensive documentation for system architecture and API integrations to improve team knowledge sharing.

CodeLab — Feb. 2022 – May 2022
Software Developer — *Davis, CA*

- Developed a Git visualization web application that reduced development cycle time by 45%.
- Implemented interactive UI components using React and modern JavaScript practices.
- Maintained detailed technical documentation and API specifications.

Lawrence Berkeley National Laboratory — Jun. 2021 – Aug. 2021
Software Engineer Intern — *Berkeley, CA*

- Developed a lossless compression and decompression algorithm for long-range transmission of temperature sensor data, achieving a 66% increase in lossless compression rates.
- Leveraged Time Series data analysis for optimizing environmental monitoring, significantly improving data storage and transmission across remote fields.

Projects

Hybrid Recommendation Model Using LightFM | *Python, LightFM* — Aug. 2023 – Oct. 2023

- Developed a sophisticated hybrid recommendation model using LightFM, optimizing user engagement with personalized content based on historical clicks and location.
- Implemented a feature for dynamic content adaptation, seamlessly switching recommendations between user location and interaction history, thereby enhancing accuracy and user experience.
- Leveraged Azure Machine Learning Studio for training the model on a proprietary dataset, significantly improving personalization and user engagement metrics.