Harini Viswanathan

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PROFESSIONAL SUMMARY

Software Engineer with two years of experience at Bank of America and a B.Tech in Computer Science from SRM University, passionate about innovation and cutting-edge technology.

EDUCATION

SRM University   Vadapalani, Chennai
Bachelor of Technology in Computer Science (CGPA: 8.65)   *06/2019 – 05/2023*
- Developed expertise in AI/ML through focused coursework in Data Structures, Algorithms, and Database Management.

EXPERIENCE

Software Engineer   07/2023 – Present
Bank Of America   *Taramani, Chennai*
    ↪ **Software Engineer - Team CIA and CodeRed**   *07/2023 – 04/2025*
    ↪ **Software Engineer - Team Pitchbook**   *04/2025 – Present*

* Implemented functional code enhancements in C-sharp by leveraging remote debugging expertise to integrate web service calls with the database, eliminating manual credential dependencies and resolving critical client issues reported via Jira. Configured and updated service references with new URLs while ensuring backward compatibility during NPT migration. Managed dependency updates by incorporating new DLLs through NuGet packages and project-level references, and retrieved missing packages from JFrog Artifactory when required.
* Executed DDL and DML SQL queries for retrieving and updating database tables, monitored and validated triggered Autosys job statuses, and analyzed database logs to troubleshoot and resolve job errors.
* Optimized CI/CD pipeline by enhancing 10+ Jenkinsfiles, managing code commits and pushes to Bitbucket feature branches, triggering builds in Jenkins, and creating release branches for deploying successful builds to lower-lane environments via Ansible Tower.
* Managed password rotations by updating credentials across 20+ products in Celestial, ensuring real-time synchronization by replacing outdated entries with current server details.
* Played a key role in monthly production releases by validating smoke testing on Informatica and Autosys for both CIA and Codered products, covering 95% of the platform's critical functionalities.
* Championed agile methodologies including daily stand-ups, sprint planning, and retrospectives for a team of 6 engineers, fostering transparent communication and improving team velocity by 15%.

PROJECTS

Engineered a real-time speech-to-text pipeline | *FastApi, Whisper AI*   Project Link
- Engineered a speech-to-text application using Python, HTML, CSS, and JavaScript; achieved 95% accuracy in transcribing audio files and capturing real-time conversations, enhancing contextual relevance.

Building And Deploying ML Model In AWS Cloud | *Sagemaker, Lambda, S3, IAM, API Gateway*   Project Link
- Developed and deployed an XGBoost model on AWS SageMaker using the Iris dataset, achieving over 90% accuracy, with data handling via S3 and Boto3.
- Built a secure and scalable inference pipeline by integrating SageMaker Endpoints, API Gateway, and AWS Lambda, enabling real-time predictions for 50+ users.

TECHNICAL SKILLS

Languages: C - sharp, SQL, Python, HTML, CSS, JavaScript
Frameworks:ASP.NET,FastApi,Whisper AI, AWS Sagemaker
Developer Tools: Git, Jenkins, Jfrog Artifactory, Celestial, Informatica, Autosys, PyCharm, SQL Server Management Studio, Visual Studio Professional 2022

ACHIEVEMENTS

* Automated greenhouse climate control using Python-based machine learning algorithms, resulting in optimal growing conditions and a significant reduction in manual intervention by about 8 hours per week.   (Publication)
* Mastered key concepts in AI workloads, machine learning principles, and the features of computer vision, NLP, and generative AI workloads on Azure, applying these skills in 2+ real-world projects.   (link)
* Mastered REST APIs concepts and implemented into 2+ web applications.   (link)