

# Rishitha Saravanan Priya

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## Professional Summary

Full-stack developer specializing in AI-integrated and generative applications using Python, FastAPI, and React. Skilled in building LLM-driven APIs, RAG pipelines, and AI agent workflows deployed across AWS and Azure using Docker and CI/CD automation. Passionate about prompt engineering, Semantic Kernel, and scalable MLOps to deliver intelligent, real-world solutions.

## Education

University at Buffalo, Buffalo, New York	Aug 2024 – Dec 2025
• Master of Science in Computer Science – AI/ML, GPA: 3.5/4.0	
Sathyabama Institute of Science and Technology, Chennai, India	Aug 2018 – Jun 2022
• Bachelor of Engineering in Computer Science, GPA: 9.05/10.0	

## Experience

Deloitte .NET Developer	Jun 2022 – Aug 2024
• Engineered and maintained enterprise-scale backend services and REST APIs using <b>ASP.NET Core</b> , <b>C#</b> , and <b>SQL</b> , powering workflows that processed <b>10K+ transactions daily</b> across claim adjudication modules.	

• Automated fraud-based claim withdrawals via intelligent **.NET batch pipelines**, integrating real-time state transitions (PEND → PROC) and reducing manual review workload by **35%**.

• Enhanced adjudication modules (`AdjudicateNonMonIssue.aspx`, `AdjudicateEmployerClaim.aspx`) to resolve logic and data inconsistencies, improving issue-resolution accuracy by **25%**.

• Implemented predictive search with optimized **SQL** and **JavaScript** logic in employer-data interfaces, cutting data-entry time by **40%** and boosting user efficiency.

• Resolved miscount anomalies in queue dashboards by refining business-rule filters and query logic, ensuring **100% data accuracy** across supervisor metrics.

• Upgraded dynamic **XML** templates for fact-finding questionnaires, enabling conditional rendering aligned with evolving regulatory rules.

• Integrated **ADA compliance** updates into legacy modules and modernized UI responsiveness using **TypeScript + Bootstrap**, improving accessibility and usability scores by **30%**.

• Contributed to fraud-adjudication logic pipelines, ensuring correct creation and linkage of dependent (child) issues based on monetary eligibility; reduced exception tickets by **40%**.

• Led QA validations and release testing for **15+ production deployments (R29-R47)** through **Jenkins + Azure CI/CD pipelines**, improving deployment reliability and rollback safety.

## Academic Projects

• <b>Sentiment Classification API (Python, FastAPI, SQL, Docker, AWS)</b> – Built a containerized REST API for real-time sentiment analysis using FastAPI; achieved <b>85% accuracy</b> and explored <b>LLM-based prompt classification</b> .
• <b>Pintos Kernel Enhancements (C, Multithreading)</b> – Implemented thread synchronization and CPU scheduling; improved kernel response by <b>20%</b> , supporting scalable <b>AI workload scheduling</b> .
• <b>Hand Gesture Recognition (TensorFlow, OpenCV)</b> – Trained a CNN achieving <b>95% accuracy</b> with real-time vision input; modeled RAG-style multimodal pipelines for AI agent control.

## Technologies

• <b>Languages:</b> Python, C#, JavaScript, TypeScript, SQL, HTML, CSS
• <b>Frameworks:</b> FastAPI, Flask, React, Node.js, ASP.NET Core, Django
• <b>AI &amp; ML Tools:</b> TensorFlow, PyTorch, LangChain, Semantic Kernel, OpenAI APIs, scikit-learn
• <b>DevOps / MLOps:</b> Docker, Jenkins, Azure Pipelines, AWS EC2/S3, CI/CD, Git
• <b>Databases:</b> PostgreSQL, SQL Server, MongoDB
• <b>Core Skills:</b> RESTful API Design, Microservices, Prompt Engineering, RAG Pipelines, AI Agent Workflows, Cloud Deployment, Agile Development, Accessibility Compliance