

# Rishitha Saravanan Priya

sprishitha@gmail.com | +1 716 279 5230 | linkedin.com/in/rishithasp

## 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

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

## Experience

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| <b>Deloitte .NET Developer</b>  | Jun 2022 – Aug 2024 |
| <ul style="list-style-type: none"><li>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.</li><li>Automated fraud-based claim withdrawals via intelligent <b>.NET batch pipelines</b>, integrating real-time state transitions (PEND → PROC) and reducing manual review workload by <b>35%</b>.</li><li>Enhanced adjudication modules (AdjudicateNonMonIssue.aspx, AdjudicateEmployerClaim.aspx) to resolve logic and data inconsistencies, improving issue-resolution accuracy by <b>25%</b>.</li><li>Implemented predictive search with optimized <b>SQL</b> and <b>JavaScript</b> logic in employer-data interfaces, cutting data-entry time by <b>40%</b> and boosting user efficiency.</li><li>Resolved miscount anomalies in queue dashboards by refining business-rule filters and query logic, ensuring <b>100% data accuracy</b> across supervisor metrics.</li><li>Upgraded dynamic <b>XML</b> templates for fact-finding questionnaires, enabling conditional rendering aligned with evolving regulatory rules.</li><li>Integrated <b>ADA compliance</b> updates into legacy modules and modernized UI responsiveness using <b>TypeScript + Bootstrap</b>, improving accessibility and usability scores by <b>30%</b>.</li><li>Contributed to fraud-adjudication logic pipelines, ensuring correct creation and linkage of dependent (child) issues based on monetary eligibility; reduced exception tickets by <b>40%</b>.</li><li>Led QA validations and release testing for <b>15+ production deployments (R29–R47)</b> through <b>Jenkins + Azure CI/CD pipelines</b>, improving deployment reliability and rollback safety.</li></ul> |                     |

## Academic Projects

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

## Technologies

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