

Mithun V Gowda

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PROFESSIONAL SUMMARY

Software Engineer and recent M.S. in Computer Science graduate from Binghamton University with 2.5 years of industry experience building production web applications and data systems. Proven track record shipping features across **React frontends** and **Python/FastAPI backends**, designing transactional systems, and working on-site in fast-paced corporate and agile environments.

TECHNICAL SKILLS

Programming: Python, SQL, JavaScript, TypeScript, Java, C++, C

AI & Machine Learning: PyTorch, TensorFlow/Keras, Scikit-learn, OpenAI API, LangChain, RAG, Embeddings, CNNs

Full-Stack & Web Frameworks: FastAPI, Django (DRF), React, Angular, Node.js, Express, REST APIs

Data Systems & Databases: PostgreSQL, Snowflake, MongoDB, Redis, Apache Airflow, PySpark, Data Modeling

Cloud & DevOps: AWS (S3, EKS), Docker, Kubernetes, Git, Jenkins, CI/CD, GitHub Actions

PROFESSIONAL EXPERIENCE

Code Path | AI Engineering Fellow | Remote, US

Sep 2026 – Present

- Architecting and deploying production-ready AI applications leveraging Large Language Models, Retrieval-Augmented Generation (RAG), and multi-agent frameworks
- Building full-stack AI integrations utilizing vector databases, embedding models, and advanced prompt engineering techniques to ensure low-latency, context-aware AI interactions

ITC Infotech | Software Engineer | Bangalore, India

Aug 2022 – Jun 2024

- Designed and orchestrated Python ETL/ELT pipelines to stream high-throughput transactional check-in and booking logs from PostgreSQL and MongoDB into Snowflake, supporting business analytics for 500,000+ members.
- Optimized core payment and booking application latency by 15% by designing modular RESTful APIs using Python and FastAPI
- Constructed automated data reconciliation and anomaly detection pipelines using Python to catch data discrepancies early, cutting transaction errors by 15% prior to data warehouse ingestion.
- Utilized Python to integrate the AWS SDK for programmatic document retrieval and storage in AWS S3, ensuring high availability of unstructured data for downstream processes.
- Optimized backend database performance by refactoring complex SQL queries and applying B-Tree indexes in PostgreSQL, reducing retrieval delays by 20% for 15,000+ daily active users.
- Containerized Python data ingestion services using Docker and maintained automated testing and deployment pipelines via Jenkins CI/CD.

ITC Infotech | Associate Software Engineer | Bangalore, India

Jan 2022 – Jul 2022

- Authored automated unit and integration tests for backend workflows, maintaining 75% to 80% code coverage across core data ingestion and payment processing modules.
- Engineered reproducible local containerized environments using Docker to standardize the developer setup for Python and data backend repositories.
- Cut developer repository onboarding timelines by orchestrating pre-configured, local environment container images using Docker.

PROJECTS

AI-Powered Analytics & RAG Engine, Data Engineering | Independent Project | [GitHub](#)

Aug 2026

- Built a Python S3-to-Snowflake pipeline with dbt, processing **10M+** orders and **23M+** order items
- Enriched **300,000+** reviews with OpenAI GPT-4o-mini into structured sentiment and topic fields
- Implemented a RAG chat interface over review embeddings and a guarded text-to-SQL assistant served through Streamlit
- Orchestrated the load-transform-enrich-analyze pipeline as a daily Airflow DAG running in Docker

NYC Collision Data Analysis | NSDC Data Science Project | [GitHub](#)

Sep 2025

- Cleaned and analyzed 10,000+ collision records using Python and Pandas, resolving missing values and data-quality issues prior to statistical analysis.
- Developed 15+ visualizations using Matplotlib and Seaborn to identify and communicate crash trends by time, contributing factor, vehicle type, and borough.

EDUCATION

Binghamton University, SUNY

Master of Science in Computer Science | (GPA: 3.67 / 4.00)

May 2026

CERTIFICATION

- Redis University: **Redis for Python Developers** – Containerized environments and complex data structures | Sep 2026