

Nived S Mohan

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EDUCATION

Manipal Institute of Technology, Bengaluru, Karnataka

Sep. 2022 – Jul. 2026

Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence)

CGPA: 8.26

EXPERIENCE

Trainee Software Engineer

Chennai, TN

Mphasis Limited

Jan. 2026 – Apr. 2026

- Built an end-to-end financial document processing pipeline to handle scanned bundles of filled forms, performing document splitting, structured data extraction as label-value pairs, signature detection via YOLOv8, and storage into Microsoft SQL Server, using Docling with RapidOCR for document parsing and exposed through a FastAPI RESTful API; optimized CPU-bound processing through parallelization, reducing processing time by ~44%.
- Coordinated and guided a team of interns through the full project lifecycle, from scoping and development to delivery.
- Completed hands-on training in Microsoft Azure and Azure AI Foundry, applying cloud services to support the project architecture

Backend Developer

Bengaluru, KA

Application Development Cell MIT Bengaluru

Sep. 2024 – Mar. 2025

- Built backend for a university data management platform using Sanic (Python), with RESTful APIs for scalable storage and retrieval.
- Deployed and maintained servers, wrote documentation, and collaborated with faculty to align platform with accreditation and ranking needs.

PROJECTS

RAG Crawler | *FastAPI, Langchain, Ollama, ChromaDB, Docker* | [Source Code](#)

- Built a RAG microservice in Python that politely crawls (robots.txt/domain-bounded) and cleans pages, chunks text (800 chars/100 overlap) with LangChain, embeds via EmbeddingGemma on Ollama, indexes in Chroma, and serves a grounded /ask API that retrieves top-k and uses Gemma 3 to generate answers with inline citations and timings—fully containerized with Docker and env-configurable.

gURL | *Go, Templ, PostgreSQL, Docker, Redis, Goose, Tailwind CSS* | [Source Code](#)

- Developed a URL shortening application with Go, PostgreSQL, and Redis, incorporating rate-limiting for controlled usage.
- Containerized the service using Docker to enable seamless deployment and improved scalability.

Laundry Management and Analytics System | *Python, Sanic, MariaDB, Docker* | [Source Code](#)

- Built a university laundry management prototype with RESTful APIs (Sanic, MariaDB), containerized via Docker for consistent development and schema management.

Elite Dangerous Pathfinder | *Rust, Axum, React* | [Source Code](#)

- Developed a Rust-based parser for large-scale star system coordinate data (JSON) and implemented two 3D spatial pathfinding algorithms; React front-end for visualization.

Pokédex | *Go, Echo, HTMX, Templ, Tailwind CSS, MariaDB* | [Source Code](#)

- Created a full-stack Pokémon encyclopedia (Go/Echo backend, MariaDB; HTMX/Templ/Tailwind CSS frontend), explored server-side rendering and AJAX transitions, and published a custom GOTTH stack project template.

TECHNICAL SKILLS

Languages: Go, Lua, Templ, Java, Python, C, SQL (MySQL/MariaDB/SQLite/PostgreSQL), JavaScript (Client-side, Node.js), HTML/CSS, Bash, Rust

Frameworks: Tailwind CSS, Sanic, React Native (Expo)

Developer Tools: Git, Neovim, Shell, Docker, VS Code, PyCharm, IntelliJ, Eclipse

Libraries: FastAPI, Echo, HTMX, React, Bubble Tea, Matplotlib, JavaFX, Statsmodel, Goose, Redis, Langchain