

Sudhan P

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EDUCATION

Indian Institute of Information Technology, Sri City

B.Tech in Computer Science and Engineering; CGPA: 7.5

Sri City, AP

Aug. 2023 – Present

EXPERIENCE

Ernst & Young (EY)

June 2026 – Present

SOC Intern – AI Security

- Built and maintain a production backend service that runs automated evaluation pipelines against LLM providers (GPT, Claude, Gemini), processing and scoring large volumes of conversation data before results reach clients.
- Designed the Flask API and data pipeline behind it, integrating multiple provider APIs behind one interface so the pipeline stays reliable and reusable as the system scales.

PROJECTS

Quantitative Strategy Backtester | *Python, Pandas, NumPy, Parquet* | GitHub

- Built a bar-by-bar backtesting engine that processes historical price data for 100+ tickers and computes performance metrics (Sharpe ratio, max drawdown) end-to-end in Python.
- Optimized the data pipeline using vectorized Pandas/NumPy operations and Parquet-based storage, cutting I/O overhead versus a naive CSV/loop-based approach on large datasets.

OwnOS | *Python, LangChain, RAG, Bash, Vector DB, Linux* | GitHub

- Engineered a backend automation layer that translates natural language into validated, executable Linux commands for autonomous system administration.
- Built a retrieval pipeline with a vector database and a web-scraping ingestion layer, ingesting external documentation into structured data for real-time, context-aware querying.

SeekhoBharat – E-Learning Platform | *Node.js, Express, MongoDB, Docker, CI/CD* | GitHub

- Contributed to a full-stack e-learning platform (React frontend, Node/Express backend, MongoDB, Redis, Elasticsearch) with schema design for the cart and course services, containerized with Docker and deployed through a GitHub Actions CI pipeline.
- Added Swagger API documentation with auth support and backend tests, improving reliability of production endpoints.

TECHNICAL SKILLS

Languages: C, Java, Python, JavaScript, SQL, HTML/CSS

Backend/Frameworks: Python (Flask, FastAPI), Node.js, Express.js, REST API Design

Data Engineering: Pandas, NumPy, ETL/Data Pipelines, Web Scraping, Parquet

Databases: MySQL, MongoDB, Vector DBs, SQL Query Optimization

Developer Tools: Git/GitHub, Docker, AWS, Linux (Ubuntu), CI/CD (GitHub Actions), Postman

Coursework: DBMS, OOP, Data Structures & Algorithms, Operating Systems, Computer Communication Networks

ACHIEVEMENTS

Finalist, Override.exe – Ascent TechFest '26 (Scaler School of Technology): Advanced to the finals of a competitive qualifier round at Scaler's annual Builders TechFest (May 2026).

Runners' Up, HackTheThreat Hackathon (Abhisarga '25): Built an AI-based early malware detection system flagging malicious process behavior via real-time resource monitoring; recognized as Trailblazer at IIIT Sri City.