Nihal Athikkai

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PROFESSIONAL SUMMARY

Software Engineer with 4+ years of experience specializing in backend development, data processing, and cloud solutions using Python, SQL, and AWS. Skilled in building scalable systems and optimizing workflows for business efficiency.

EXPERIENCE

Project Engineer   June 2021 – Present
Wipro Ltd.   *Bangalore, Karnataka*

- Developed and optimized Python FastAPI backend for an internal portal used by 400+ global users to manage *Quality Standard System (QSS)* scenarios and test cases, reducing approval time by XX%.
- Implemented advanced Excel file parsing and validation logic, improving data processing efficiency by XX%.
- Designed and deployed tracking mechanisms for scenario statuses, resource allocation, and time estimation, enhancing project visibility by XX%.
- Migrated REST API from Flask to FastAPI, boosting API performance by 2.5x through code optimization and concurrency.

Intern   Dec 2019 – Dec 2019
Kerala Minerals and Metals Ltd.   *Kollam, Kerala*

- Conducted a detailed study of titanium-dioxide pigment production processes, gaining insights into large-scale manufacturing workflows.

Summer Research Fellow   May 2019 – July 2019
IIT Ropar   *Ropar, Punjab*

- Developed a GUI for CNC toolpath generation in the SPIF process using MATLAB App Designer, reducing toolpath generation time by XX%.

PROJECTS

Social Media API Service | *Go, PostgreSQL, Git*

- Developed a RESTful API service for a social media application, enabling user authentication, post creation, and interaction features.
- Implemented PostgreSQL database schema for efficient data storage and retrieval.
- Utilized Go's concurrency features to handle multiple API requests simultaneously.

EDUCATION

National Institute of Technology Calicut   Calicut, Kerala
Bachelor of Technology in Mechanical Engineering   *July 2017 – June 2021*

Sarvodaya Central Vidyalaya   Thiruvananthapuram, Kerala
Higher Secondary Certificate, PCMC   *June. 2015 – March 2017*

TECHNICAL SKILLS

Languages: Python, SQL (MySQL), Go
Frameworks: FastAPI, Flask, Pydantic, LangChain
Developer Tools: Git, Docker, VS Code, Postman
Platforms: AWS (CloudFormation CDK, MWAA, EMR, RDS, Glue)
Libraries: pandas, NumPy, Matplotlib, OpenPyXL
Tools: MATLAB, SOLIDWORKS, Fusion 360