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

Apple (*QSS*) | *Developer L3*
- Developed and optimized Python **FastAPI** backend (using **MySQL**, **Box**, and **Docker**) for an internal portal used by 700+ global business users to manage *Quality Standard System (QSS)* scenarios and test cases.
- Implemented advanced Excel file parsing, validation and data extraction logic with **OpenPyXL** and **pandas**.
- Designed and deployed tracking mechanisms for scenario statuses, resource allocation, and time estimation and other key metrics enhancing project visibility.
- Migrated REST API from **Flask** to **FastAPI**, boosting API performance by 2.5× through code optimization and concurrency.

Apple (*Marketing Measurements Engineering*) | *Developer L2*
- Deployed and managed **AWS Glue** crawlers with **AWS MWAA** to extract metadata from CSV data stored in S3, leveraging **AWS CloudFormation** (using AWS CDK, AWS SDK and Python).
- Implemented metadata registration and change monitoring system, notifying users of updates via **AWS SNS**.
- Created Jenkins pipelines to automate testing and deployment of the CDK stacks.
- Developed Python script for deploying customizable AWS CloudFormation stacks, including RDS instances and NLBs.

Nike | *Developer L1*
- Worked on POC in SAP DI wherein created graphs (data pipelines) to egress data from various sources, modify with a custom Python Operators and load it into Kafka and SAP HANA systems

HSBC | *Developer L1*
- Worked on POC with PySpark to process and analyze input files, used AWS EMR clusters to run various data processing PySpark applications.
- Created Apache Airflow DAG to get user data and store it in a SQL database.

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%.

TECHNICAL SKILLS

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

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