Muhammed Abnas

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EDUCATION

College Of Engineering Chengannur   Alappuzha, Kerala
Bachelor of Technology, Computer Science   Nov 2021- April 2025

EXPERIENCE

Wipro Technologies Limited   Bengaluru, Karnataka
AWS Gen AI Intern   Jan 2025–June 2025

- Developed scalable REST APIs using FastAPI and managed secure authentication flows via JWT.
- Designed and optimized backend logic for a cloud infrastructure automation suite with PostgreSQL and SQLAlchemy ORM.
- Led the AWS Organization Migration Agent from scratch: built using FastAPI, React (Vite + TypeScript), with Dockerized deployments.
- Automated AWS Org tasks using Boto3: integrated Claude AI APIs for decision-support workflows in AWS cloud environments.

PROJECTS

Dialecto - CLSC API | *Typescript | React | FastAPI | HuggingFace | Wav2vec2 | Pytorch*   March 2025
- Developed a full-stack AI-powered web application to translate regional Malayalam dialect speech to English using ASR, NMT, and TTS pipelines.
- Fine-tuned Wav2Vec2.0 with CTC loss for dialect-specific Automatic Speech Recognition (ASR), improving transcription accuracy.
- Designed and deployed backend APIs using FastAPI, hosting model inference using ONNX Runtime.

Enterprise AWS Migration Automation Platform (Wipro) | *AWS | React | FASTAPI*   June 2025
- Architected full-stack enterprise migration platform using React/TypeScript frontend and FastAPI Python backend with PostgreSQL, enabling automated AWS account migrations between organizations through 35+ orchestrated steps across 5 phases
- Integrated Claude AI agent and comprehensive AWS services (Organizations, RAM, IAM, etc) to provide intelligent migration guidance and automated resource assessment with real-time progress tracking

SKILLS   CERTIFICATIONS & COURSES

Programming Languages : Python, SQL, C, JS   [Github Fundamentals](#)
AWS, Git and Github   [AWS Introduction to Gen AI](#)
AI & ML : Gen AI   [Develop GenAI Apps with Gemini](#)
Web Development : Flask, FastAPI, React, CRA, PostgresQL, Postman