MOHAMMED THANEESH

Software Engineer | Backend and Full-Stack Development

Mangaluru, India | 7349707336 | mohammedthaneesh97@gmail.com

https://linkedin.com/in/mohammed-thaneesh-ai | https://github.com/mthanish | https://mthanish.github.io

SUMMARY

Final-year B.E. student in AI and ML (CGPA 8.5, graduating 2027) with solid programming fundamentals in Python, Java, Go and C. Built a concurrent, encrypted TCP file transfer service in Go, layered FastAPI backends and an offline-first Flutter app with an encrypted vault. Runner-up at ALGORISM AI-Native Hackathon 2026. Available from January 2027.

EDUCATION

B.E. Artificial Intelligence and Machine Learning, P A College of Engineering, Mangaluru (VTU) | CGPA 8.5 — 2023 - 2027

Pre-University (Science), St. Aloysius PU College, Mangaluru | 89% — 2021 - 2023

SSLC, Crescent English Medium School | 89% — 2021

TECHNICAL SKILLS

Programming Languages: Python, Java, Go, C, SQL, JavaScript, Dart
Backend and Networking: FastAPI, REST APIs, TCP/IP, Concurrent Programming (Goroutines), Client-Server Architecture
Databases: MongoDB (Aggregation Pipelines, Indexing, Text Search), MySQL, SQLite, Firebase Firestore, Hive
Frontend and Mobile: React, Flutter, Riverpod, HTML5, CSS3
Security and Testing: AES-256-GCM, SHA-256, Password Key Derivation, Python Unit Testing, Postman
Developer Tools: Git, GitHub, VS Code
AI/ML and Data: Scikit-learn, Pandas, NumPy, OpenCV, Hugging Face, LangChain, Streamlit, Tableau, Power BI, Excel
Core CS: Data Structures and Algorithms, OOP, Operating Systems, Computer Networks, DBMS

PROJECTS

Concurrent File Transfer Service in Go | *Go, TCP, AES-256-GCM, SHA-256, REST* — https://github.com/mthanish/GoTransfer

- Built a concurrent TCP file transfer server and client in Go, using goroutines to handle simultaneous transfers.
- Protected every transfer with AES-256-GCM encryption and SHA-256 checksums, with resumable transfers and a REST API for transfer status.
- Measured locally with encryption and disk writes on: 50.37 MB/s (1 client), 257.02 MB/s (10 concurrent clients).

My Notes: Notes and Encrypted Vault App | *Flutter, Riverpod, Hive, Firebase* — https://github.com/mthanish/My-Notes-Cloud-sync

- Designed an offline-first Flutter app in three layers (UI, repository, services) with Hive storage and Cloud Firestore sync.
- Implemented an AES-256 password vault with salted key stretching so credentials never reach the cloud in plaintext.

Gage: Kannada-English AI Advisory System for Sugarcane Farming | *FastAPI, ESP32, WebSocket* — https://github.com/mthanish/Gage

- Hardware and backend developer in a four-person team (VTU degree project). Built FastAPI backend modules in a layered design (routers, models, schemas, database layer) for sensor readings, alerts and observations.
- Built the ESP32 monitoring node and the sensor and image upload endpoints that merge into one observation. In testing, 368 sensor uploads all returned status 200 (median 51.5 ms, p95 70.3 ms) and 24 of 24 end-to-end pipeline checks passed.

GeoAI Mapper: AI for Mineral Targeting | *Python, Random Forest, Streamlit* — https://github.com/mthanish/Geo-AI

- ML lead. Built a geospatial feature pipeline (lithology, fault distance, fold distance) and a Random Forest demo that scores 140,751 grid cells across Karnataka and Andhra Pradesh, shown in a Streamlit map app. Training labels are simulated for demonstration.

EXPERIENCE

AI Intern, CodeAlpha (Internship) — September 2025 (1 month)

- Built LingoFusion, a full-stack translation web app (FastAPI, React, MongoDB) with REST endpoints for languages, translation and history, plus auto language detection and text-to-speech. https://github.com/mthanish/CodeAlpha_lingofusion
- Built an FAQ chatbot in Streamlit using TF-IDF vectorization and cosine similarity over a JSON FAQ dataset, with a modular source layout. https://github.com/mthanish/CodeAlpha_FAQ_Chatbot

OPEN-SOURCE CONTRIBUTION

Simpaudio | *Python, unit testing | Contributor, pull request open* — https://github.com/alimaandev/simpaudio/pull/22

- Submitted a pull request adding five Python unit tests for the SRT exporter, covering time formatting, segment grouping and SRT/VTT output. All tests pass; awaiting maintainer review.

ACHIEVEMENTS AND CERTIFICATIONS

- Runner-up, ALGORISM: The AI-Native Hackathon 2026 (50+ teams); participated in 8+ hackathons
- Completed: Goldman Sachs Software Engineering Job Simulation; Google Cloud Study Jam (Nov 2023 - Jan 2024); Microsoft Learn path: Get started with AI applications and agents on Azure

Languages: English, Hindi, Kannada