

# ASEEMMUHAMMAD A. R.

github/iamaseem — iamseem-blog

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## EDUCATION

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- **Govt. Engineering College Wayanad** Kerala, India  
*B.Tech in Computer Science And Engineering* 2016 – 2020
- **GVHSS Payyoli** Kerala, India  
*Higher Secondary Examination* March 2016
- **THS Payyoli** Kerala, India  
*Technical High School Leaving Certificate (Motor Mechanical)* May 2012

## EXPERIENCE

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- **Eduport** Kerala,India  
*Senior Product Engineer* Aug 2024 – Present
  - **AI/ML Lead:** Working as a Senior Backend Engineer and AI/ML lead.
  - **Personal Tutor Prototyping:** Prototyped a personal tutor with Gemini Live API and functional calling.
  - **Document Ingestion Pipeline:** Implemented document ingestion pipeline with OCR and similarity check using VDB for AI doubt clearance module.
  - **Audio Transcription Pipeline:** Developed an audio-timestamped transcription pipeline with Whisper.
  - **Agentic Doubt Clearance:** Implemented agentic type doubt clearance with document search, video search and a hint mode for promoting active learning.
  - Technologies Used:** Django, Celery, Redis, PostgreSQL, Redis Queue, Fast API, MongoDB, Whisper, OpenAI CLIP, Sentence Transformer, ChromaDB, QdrantDB, Google ADK.
- **Entri.App** Kerala,India  
*Product Engineer* Aug 2022 – Aug 2024
  - **Product-Led Growth:** Worked closely with the in-house growth team to plan and implement several product-led growth experiments and features.
  - **Landing Page CMS:** Architected and built a landing page CMS to improve SEO team velocity and organic lead collection.
  - **Eva Fluency Analyzer:** Developed an Eva fluency analyzer to assess user fluency and grammar using the Elsa service.
  - **Eva Insight:** Implemented Eva Insight, a natural language interface to the Data warehouse, to accelerate the BI team's data extraction process.
  - Technologies Used:** Django, Celery, Redis, PostgreSQL, RabbitMQ, AWS ECS, Docker, Jenkins, LangChain, LlamaIndex.
- **Neoito** Kerala,India  
*Associate Software Engineer* Feb 2021 – Aug 2022
  - **Full-Stack Development:** Built the user-facing platform on NextJS, optimizing for SEO to achieve a score of 90+ on both mobile and desktop. Contributed to the PropertyOk CRM by implementing new features using NodeJS, GraphQL, PostgreSQL, ReactJS, Redux, Redux-Saga, and Apollo GraphQL Client.
  - **Open-Source Collaboration:** Collaborated with the open-source NullCast community as a NextJS developer, sponsored by the company. Worked on an open-source learning platform to create and consume tutorials.
  - Technologies Used:** NextJS, NodeJS, PostgreSQL, GraphQL, ReactJS, Redux, Redux-Saga, PrismaORM.
- **Instagate Solution** Kerala,India  
*FullStack Developer* Dec 2020 – Jan 2021
  - **Madruka API Development:** Designed and developed an API for Madruka with Flask and SQLite, and hosted in AWS Lambda with a microservice principle to cut the running cost. **Link**
  - **UWCHS Website Development:** Developed a website for UWCHS. **Link**

## PERSONAL PROJECTS

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- **TB Detection Using Cough Audio Using HeAR Embeddings:** Experiment with **HeAR embedding model** to respiratory system's airflow audio embeddings to classify TB audio samples. Utilized several simple classifiers, including **SVM (linear, RBF), MLP, RF, and GB** to train models and classify TB audio samples. **Colab Link**
- **Tuberculosis Cell Detection Using X-Ray Images:** Build a 3-block CNN for TB image classification in TF and convert it to run on-device as a tflite model. Wrapped a Keras TB cell detecting model in a Flask API and made a function to convert incoming images to fit the input layer regardless of image compression type/format. **Github Link, Colab Link**

## SKILLS

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- **Programming Languages:** Python, JavaScript, MicroPython, SQL, Golang
- **Technologies:** Django, NodeJS, Flask, PostgreSQL, ChromaDB, MongoDB, Docker, RabbitMQ, Redis, Celery, React, NextJS, Tailwind CSS, AstroJS, PyTorch (Basics), hf-transformer (Basics), Langchain, LangGraph, Llamaindex, Streamlit, AWS (EC2, Lambda, S3), GCP (Basic)

## COURSEWORK

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- **Undergraduate:** Artificial Intelligence + Machine Learning, Data Structure, Operating Systems, Design And Analysis Of Algorithm, FOSS Tools and Scripting

## LINKS

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- Github: **iamaseem**
- LinkedIn: **iamaseem**
- LeetCode: **iamaseem**
- HuggingFace: **iamaseem**