

AMAL THILAKAN

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SUMMARY

Data Science postgraduate with strong expertise in frontend and backend development, machine learning, and full-stack application design. Experienced in building scalable web platforms, data-driven systems, and mobile applications with a focus on clean architecture, problem solving, and collaboration.

EDUCATION

Cochin University of Science and Technology <i>Master of Computer Science (Data Science)</i>	Kerala, India 2022 – 2024
MES Marampally, Mahatma Gandhi University <i>Bachelor of Computer Applications (BCA)</i>	Kerala, India 2018 – 2021
Kasturba English Medium School (CBSE) <i>Higher Secondary Education (Science)</i>	Kerala, India 2016 – 2018

SKILLS

Languages: Python, C, C++, Java, JavaScript, TypeScript
Web: HTML, CSS, REST APIs, Redux, Axios
Frameworks: Django, React, React Native, Node.js, Express.js
Databases: SQL, SQLite, MongoDB
ML & Data: Pandas, NumPy, Scikit-learn, Machine Learning
Tools: Git, VS Code
Practices: RESTful Design, Agile, MVC Architecture

EXPERIENCE

AY Tech <i>Python Django Intern</i>	Kerala, India Sept 2025 – Present
<ul style="list-style-type: none">Developed backend modules using Django and Django REST Framework.Built authentication systems, APIs, and database models.Integrated AI and machine learning workflows with backend services.Worked with MySQL and ORM-based query optimization.	
Centgrade Labs <i>Software Engineer Intern</i>	Kerala, India Oct 2024 – Feb 2025
<ul style="list-style-type: none">Contributed to full-stack development using React and Node.js.Worked with MongoDB, Express.js, and REST APIs.Collaborated with senior engineers on scalable components.	

PROJECTS

VHELP Platform

Tools & Technologies: Python, Django, SQLite, HTML, CSS, JavaScript, AI, Machine Learning

- Built a volunteer-consumer assistance platform with role-based authentication.
- Implemented multi-step registration, approval workflows, and admin dashboards.
- Applied AI and Machine Learning techniques for intelligent volunteer-case matching.

FoodPin App

Tools & Technologies: React Native, Expo, Google Maps API, TypeScript

- Developed an Android app to bookmark restaurants with map integration.
- Implemented geolocation, routing, and list management features.

Recipe Recommendation System

Tools & Technologies: MERN Stack, Machine Learning

- Built a personalized recipe recommendation system using ML algorithms.

Indian Sign Language Detection

Tools & Technologies: Python, MediaPipe, OpenCV, RNN

- Developed an ISL recognition system using video processing and neural networks.

Breast Cancer Detection System

Tools & Technologies: Python, Pandas, NumPy, Scikit-learn

- Built predictive models for early-stage breast cancer classification.

CERTIFICATES

MEARN Stack Development

Right Soft Options, Kaloor

Jun 2024 – Sep 2024

Android Development Using Java

Acmegrade, Bengaluru

Jun 2023 – Jul 2023