

# 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

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

## SKILLS

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

## EXPERIENCE

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

## 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

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**MEARN Stack Development**

Right Soft Options, Kaloor  
*Jun 2024 – Sep 2024*

**Android Development Using Java**

Acmegrade, Bengaluru  
*Jun 2023 – Jul 2023*