Aravind R Nair

B.Tech Computer Science & Engineering Student

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Adoor,Pathanamthitta, Kerala, India

About Me

Aspiring Backend Developer and AI/ML Enthusiast passionate about building intelligent, scalable, and efficient systems that bridge software engineering with machine learning. Skilled in Python and Java, with hands-on experience in developing RESTful APIs, data preprocessing, and model integration using TensorFlow and Scikit-learn. Currently exploring real-world AI applications like image classification and automation pipelines, while strengthening backend design and data management skills. A curious learner and dedicated team player, eager to contribute to impactful AI-driven projects and continuously evolve in the fields of software and machine intelligence.

Education

Amal Jyothi College of Engineering (Autonomous), Kottayam, India *Aug 2022–Present*
B.Tech in Computer Science & Engineering (Expected May 2026)

NSS HSS Thattayil, Pathanamthitta, Kerala, India *Jun 2020–May 2022*
Class XII, DHSE Kerala, Computer Science stream, 97.0% aggregate

NSS HS Thattayil, Pathanamthitta, Kerala, India *Jun 2019–May 2020*
Class X, Kerala Board of Public Examinations, 90.0% aggregate

Experience

Backend Developer Intern – *Agrowtein Labs Pvt. Ltd., Startup Valley TBI, Kanjirappally*
Mar 2025 – Sep 2025

- Developed RESTful APIs using Node.js and Express for IoT-based applications.
- Implemented JWT-based authentication and optimized MongoDB queries for performance.
- Collaborated with the mobile team to integrate backend APIs with Flutter applications and ensure seamless real-time communication.

Blockchain Intern – *Kerala Blockchain Academy*
Sep 2024 – Nov 2024

- Created decentralized applications (dApps) and smart contracts using Solidity.
- Integrated Ethereum blockchain with IPFS for secure and distributed data storage.
- Researched consensus mechanisms and smart contract security best practices to enhance reliability and performance.

Achievements & Leadership

- **UST D3CODE 2025 Finalist (Top 5)**
- **Beach Hack 2024 Finalist (Top 10)**
- **Hackspiron Hackathon (Top 3, College Level)**
- **Treasurer, ACM Student Chapter**
- **Core Team Member, Google Developer Group (AIML Domain)**

Projects

Academic Projects

- **NeuroSense (Ongoing)** – ML-based autism trigger analysis and support system.
- **Canine Disease Detection** – Dog skin disease detection using CNN, partnered with Kerala Veterinary University.
- **Privio (Mini Project)** – Anonymous traffic violation detection using computer vision.
- **Li-Fi Communication System (Minor Project)** – Secure data transmission using LEDs.

External & Personal Projects

- **WA-Gemini** – WhatsApp AI Assistant using Node.js, TypeScript, and Gemini API.
- **Onyx Healthcare Backend** – IoT-enabled backend for healthcare kiosk system.
- **Medamex** – Decentralized medical records app using React, Solidity, and IPFS.
- **Sigtron App Backend** – IoT backend for smart lighting control with AWS integration.
- **Churn Prediction** – ANN model for customer churn prediction using TensorFlow.
- **CAPTCHA OCR Reader** – Streamlit app using EasyOCR for CAPTCHA text extraction.
- **Weather Info Map** – React app using OpenWeatherMap API and Leaflet for live weather mapping.

Technical Skills

Programming Languages:
C, C++, Java, Python, JavaScript, Solidity

Databases:
MongoDB, SQL, Supabase

Frontend:
HTML5, CSS3, React

AI/ML & Data Science:
TensorFlow, OpenCV, Pandas, NumPy

Backend & Frameworks:
Node.js, Express, Flask

Tools & Cloud:
Git, Docker, Vercel, Netlify

Certifications

Python Programming – NPTEL

Ethical Hacking – NPTEL

Java Programming – Infosys Springboard

Database Management Systems – Oracle

Artificial Intelligence – Infosys Springboard

AI Foundations – Oracle

Generative AI – Oracle

AI for Data Science – Oracle

AI Vector Search – Oracle

Java Programming – Oracle

Interests

Backend Development • Blockchain • Machine Learning • Music • Travel

References

Dr. Juby Mathew

HOD, Dept. of Computer Science and Engineering, Amal Jyothi College of Engineering (Autonomous)

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Fabeela Ali Rawther

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