Aromal S

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github.com/DeveloperAromal

Summary

Driven by curiosity and a hands-on approach, I'm a multidomain **Full-Stack Developer, AI/ML & Cybersecurity Innovator, and Rapid Delivery Specialist**. At 18, I've delivered production-ready solutions spanning **web, mobile, backend, and AI-powered systems** for startups and educational teams. I focus on **security, scalability, and rapid prototyping**, while mentoring 100+ students in full-stack and AI.

Education

Vidya Academy of Science and Technology - Technical Campus, Kilimanoor (2025 - 2029)
B.Tech in Computer Science
- **Relevant Coursework:** Data Structures and Algorithms, Database Management Systems, Artificial Intelligence, Machine Learning, Cybersecurity, Web Technologies, Software Engineering

Experience

Master Tutor, Steyp – Remote
- Mentored 100+ students in full-stack, AI, and cybersecurity.
- Delivered hands-on lessons in React, Python, and cloud deployments.

Full-Stack Developer, Code Cave – Remote
- Built and deployed scalable web and mobile applications using React, Next.js, Node.js, and Python.
- Designed secure backend systems with APIs and cloud services.

Projects

SynapseDB – Hybrid Database Engine
- Built a hybrid database engine using Rust and Go for high-performance concurrency.
- Integrated NLP-powered natural language to SQL query system.

Text to SQL NLP – Natural Language Query to SQL Translator
- Developed an ML+NLP pipeline to convert plain English queries into SQL.
- Automated preprocessing, training, and inference with modular scripts.

XOR Neural Network from Scratch
- Implemented a neural network in NumPy with manual forward/backward propagation.
- Trained successfully on the XOR classification problem.

PyroScan AI – Multi-Agent Fire Prediction System
- Designed a multi-agent AI for wildfire monitoring with NASA FIRMS and weather APIs.
- Dockerized for reproducible deployment and global scalability.

Technologies

Languages: Python, JavaScript, Rust, Go, Dart, SQL, C
Frameworks/Tools: React.js, Next.js, Flutter, Django, MERN Stack, PyTorch, TensorFlow, Keras, Docker, Vercel, DigitalOcean, Supabase, Firebase
Domains: AI/ML, Cybersecurity, Full-Stack Web & Mobile Development, Cloud Platforms, Technical Mentoring

Referrals

Dr. C Brijilal Ruban
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