

Roshan Cyriac

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Education

Cochin University Of Science And Technology, BTech. in Computer Science and Engineering 2023 - 2027
CGPA: 8.5/10.0
St. Antony's Public School, Intermediate 2020 - 2022

Experience

AI Automation Intern March'25 - April'25

- Engineered a custom tool calling framework for DeepSeek LLM to enable system-level operations and API integrations
- Created AI-powered infrastructure automation using Terraform and Ansible for AWS and DigitalOcean deployments
- Implemented automated cloud resource provisioning and configuration management through AI-generated IaC
- Implemented function calling architecture similar to Claude's capabilities, extending DeepSeek's functionality
- Built a React-based interface with dynamic tool registration and execution pipeline
- Developed robust error handling and response parsing system for seamless tool interactions

UI/UX Design Intern Caspar Technologies Private Limited April'24 - May'24

- One-month intensive internship in UI/UX design and web development
- Built responsive web applications using React and modern frontend frameworks
- Developed interactive user interfaces and implemented responsive layouts

Publications

AI-Powered Microgrid Management Research PSGR Krishnammal College for Women October'24
Presented research paper on AI-driven solutions for microgrid management and supply chain optimization, focusing on enhancing energy distribution efficiency and demand forecasting at the National Conference on Supply Chain Strategies

Projects

Open-Source Thrust Vector Control Rocket – VEGA R1 March 2025

- Developed VEGA R1 using Thejus SoC and Aries Board (India's first RISC-V processor)
- Implemented PID stabilization using real-time IMU data via Sseed nRF52840
- Built web-based telemetry system for live sensor data and 3D visualization

SafeDisp Mar Baselios College Of Engineering April'24

- Developed AI-based conveyor system for biomedical waste segregation using Roboflow 3.0
- Implemented real-time waste tracking and classification system
- Integrated environmental monitoring sensors for safety compliance

Self-Hosted Server with Cloud Storage Jan'25

- Designed secure Ubuntu Server with remote access and cloud storage
- Configured Nextcloud with Apache, MySQL, and PHP for encrypted file sync
- Implemented Tailscale VPN for secure remote access

AI Chatbot with Smart Reminder Detection Dec'24

- Built FastAPI-based chatbot with NLP for intelligent reminder extraction
- Implemented real-time processing and automated task management
- Designed scalable architecture for continuous conversation

Activities

Vibhava'25 Cochin University Of Science And Technology March'25
Participated in the national-level technical symposium, showcasing innovative technical projects and engaging in cutting-edge technology discussions

Define'24 Mar Baselios College Of Engineering April'24
Led team in 24-hour hackathon, developing IoT-based biomedical waste segregation system

Dhishna Cochin University Of Science And Technology Nov'23
Developed innovative tech project combining computer code with spiritual concepts at Annual Tech Fest

Skills

Technical: AI agents, Terraform, Ansible, Node.js, Networking, GenAI tools, React, Java, DSA, OOP (C++), HTML/CSS, JavaScript, Image Recognition (Roboflow/YOLO), C/C++

Languages: English, Hindi, Malayalam