

RAGUL BALAJII S S

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Education

Coimbatore Institute of Technology

Master of Science in Decision and Computing Sciences, CGPA: 7.7 (till 5th semester)

08/2023 – 08/2028

Coimbatore, Tamil Nadu

Summary

Software Developer with experience in **full-stack development**, **AI/ML integration**, and **RESTful API design**. Built scalable applications with **React**, **FastAPI**, and **Python**. Exposure to **blockchain**, **SQL**, and **Linux**. Known for implementing **data-driven solutions** and clean architectures.

Experience

SimTestLab

06/2025 – 07/2025

Web Developer Intern (Remote)

Sweden

- Engineered full-stack web apps using **React.js**, **Next.js**, **Python**, and **JavaScript**, improving average load time by **20%**.
- Developed a **JSON Code Converter** with **FastAPI**, auto-generating code for 4+ languages with **95% parsing accuracy**.

Meshery (Layer5)

012/2025 – Present

Open Source Contributor

Remote

- Fixed build errors in **Gatsby** and resolved MDX-related issues in the cloud-native open-source project.
- Improved site stability by identifying and debugging UI bugs and issues in CI/CD pipelines using **Git/GitHub**.

Projects

SmartRx – AI Health Companion | *React, FastAPI, Python, SQL*

06/2025

- Engineered a personal health app that tracks prescriptions and alerts drug conflicts using AI.
- Applied **NLP models** to analyze drug names and interactions with **95% accuracy**.
- Integrated pharmacy geolocation via **SQL REST APIs**, improving service coverage.

TradeGuard – AI Trading DApp | *Python, React, Node.js, Move*

03/2025

- Built a decentralized trading app using **Move smart contracts** for secure crypto exchange.
- Implemented real-time trade monitoring with **WebSocket** and **Node.js**, reducing delay to under **300ms**.
- Automated deployment across testnets using Bash; achieved **99.8% uptime** in test runs.

Technical Skills

Languages: C/C++, Java, Python, JavaScript, HTML/CSS, SQL, Bash
Frameworks/Technologies: React, Node.js, Linux, Git, GitHub, REST API
Developer Tools: VS Code, Docker, Android Studio
Operating Systems: Linux (Arch/Debian), Windows

Certifications

AI and Cloud Computing – Edunet Foundation & AICTE (07/2024): Built AI apps on **IBM Cloud** via **IBM SkillsBuild**.

Software Engineer Intern – HackerRank (06/2024): Validated skills in clean code, algorithms, and problem-solving.

Networking Basics – Cisco (05/2024): Learned networking protocols and secure data transfer techniques.

Extracurricular

KLA Alumni Hackathon – Code Vortex 2

08/2025

Special Mention Award – Department of Computing, CIT

Coimbatore, India

- Special Mention** in **200+** participant algorithmic hackathon for analytical thinking and optimized problem-solving.

Binary*Forge CTF

03/2025

2nd Place – Cybersecurity Capture The Flag

PGS Tech

- Ranked **2nd out of 120 teams** by solving complex **crypto**, **reversing**, and **web exploits** within 6 hours.

AIgnite'25

03/2025

2nd Place – AI Hackathon

Coimbatore Institute of Technology

- Developed a real-time OCR pipeline to digitize medical prescriptions; achieved **78% text extraction accuracy** and reduced manual effort by **50%**.