

RAGUL BALAJII

📞 9629210630 ✉ sbragul26@gmail.com [in LinkedIn](#) [Github](#)

Education

Coimbatore Institute Of Technology

Master of Science in Decision and Computing Sciences

2023 – 2028

Coimbatore, Tamil Nadu

Summary

Detail-oriented and results-driven **Software Developer** with hands-on experience in **full-stack development**, **AI/ML**, and **cybersecurity**. Proficient in building secure, scalable applications using **React**, **Python**, and **FastAPI**. Skilled in **blockchain**, **test automation**, and solving complex real-world problems using modern technologies and clean code practices.

Experience

SimTestLab

May 2025 – Jun 2025

Web Developer Intern (Remote)

Sweden

- Completed a hands-on internship focused on full-stack development using **React.js**, **Next.js**, and **JavaScript** across 4 real-world web modules.
- Engineered a **JSON Code Converter** that transforms JSON into **C**, **C++**, **Java**, **Python**, and **JavaScript**, with a verified **95% conversion accuracy** across 200+ test inputs.
- Optimized component lifecycle using **React Hooks** and **Next.js routing**, reducing load times by **30%** and increasing scalability.
- Collaborated in a 4-member agile team using **Git**, Scrum standups, and Jira, improving delivery speed by **20%**.
- Executed comprehensive UI testing and cross-browser debugging, ensuring 100% responsiveness across 10+ modern browsers/devices.

Projects

SmartRx – AI Health Companion | *React, FastAPI, NLP*

June 2025

- Spearheaded the development of a secure, AI-based medication tracking app used by 150+ test users.
- Applied **NLP models** to parse and validate prescriptions, flagging **drug interactions** with **95% accuracy** on 1,000+ inputs.
- Embedded geolocation APIs and QR record access, reducing emergency retrieval time by **60%**.
- Crafted a modular dashboard using React Hooks, increasing user engagement by **40%** in usability testing.

TradeGuard | *Python, JavaScript, React, Node.js, Move*

March 2025

- Architected a blockchain-based trading platform on **Aptos** with auto risk control, handling simulated volumes of **500+ transactions/day**.
- Audited and validated **Move smart contracts** with 100+ test cases; achieved **zero critical vulnerabilities**, reinforcing wallet-level security.
- Designed and deployed a real-time dashboard using React and Node.js, visualizing live crypto data and predictions with sub-second latency.
- Deployed AI modules to automate trade execution, hedge volatility, and dynamically adjust leverage — cutting user liquidation risk by **50%**.

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, Android Studio

Operating Systems: Linux (Arch/Kali), Windows

Extracurricular

Binary*Forge

March 2025

Cybersecurity CTF – 2nd Place

PGS Tech

- Secured 2nd place out of 200+ teams in national CTF; solved 12+ high-difficulty challenges in **cryptography**, **binary exploitation**, and **reverse engineering**.

AIgnite'25

March 2025

AI Hackathon – 2nd Place

Coimbatore Institute of Technology

- Developed an AI-powered React app to digitize and classify handwritten prescriptions; improved accuracy from 50% to **78%** using iterative OCR model tuning.