Vipun Sanjana Jayathunga

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Profile

Final-year Software Engineering student with hands-on experience in backend, frontend, and IoT development. Contributed to the AutoSecOps research project, focusing on AI-driven security in DevSecOps pipelines. Interned at WSO2's Cloud Security Operations Center, supporting key research and internal projects in cloud security. Actively learning DevOps, DevSecOps, cybersecurity, and machine learning. Passionate about building secure, scalable, and innovative software through collaboration and continuous learning.

Education

B.Sc. (Hons) in Software Engineering (Final Year Undergraduate), University of Kelaniya 2022 – Feb 2026

- Key Coursework: Problem Solving, Databases, Object-Oriented Programming, Data Structures and Algorithms, Full-Stack Web Development, Mobile App Development, Data Science, DevOps, IOT

G.C.E. Advanced Level - Sri Palee College, Horana 2017 – 2020

- Stream: Physical Science (Combined Mathematics – A, Physics – B, Chemistry – B)

Experience

Software Engineer Intern, WSO2 (Cloud Security Operations Center) Oct 2024 – Apr 2025

- Completed two major research projects on phishing analysis and first-response automation using a wide range of technologies including Python, Ballerina, MongoDB, Docker, Firebase, MySQL, React TypeScript, Azure Log Analytics (KQL), encryption algorithms (RSA and symmetric), Azure Logic Apps, ServiceNow, Google Sheets automation, Microservices, OpenAI, and web scraping
- Successfully deployed both projects on the Choreo platform, integrating multiple backend services and scheduled cron jobs to enable fully automated workflows
- Contributed to internal initiatives, gaining hands-on experience with enterprise cloud security tools and backend services

Software Developer, Crytec Labs Apr 2024 – Aug 2024

- Developed backend modules for software applications using NestJS
- Collaborated on application architecture and deployment for client solutions

Freelance Software Developer 2023 – Feb 2024

- Developed and deployed a hospital management website backend using Node.js - now live in production
- Designed, integrated backend and develop frontend modules for the Laundromat mobile app, currently used by real customers
- Delivered several custom software solutions across domains such as logistics, e-commerce, and automation

Projects

MediConnect – Full-Stack Medical Web Application (Local Client Project) 2023

- Built a high-performance medical web app using the MERN stack and Firebase for authentication
- Enabled patients to book online doctor appointments and access essential health services
- Developed for a local client; source code is private

IoT-Based Agriculture Monitoring System 2024

- Developed using C++, NodeMCU (ESP8266), and Blynk IoT platform
- Monitored soil moisture, temperature, and humidity for smarter irrigation
- Enabled real-time data visualization and remote control via Blynk mobile app

Real-Time Chat Application – MERN Stack 2024

- Developed a real-time chat platform using the MERN stack and WebSockets
- Implemented socket-based messaging for instant communication between users
- GitHub: `https://github.com/vipunsanjana/Real-time-chat-application`

Land Sale Mobile App – Flutter & Firebase   2024

- Built a cross-platform mobile app using Flutter and Firebase Realtime Database
- Enabled users to browse, post, and manage land listings in real-time
- GitHub: `https://github.com/vipunsanjana/LandSalemobileApp`

Laundromat Mobile App – Flutter (Local Client Project)   2025

- Developed a mobile application using Flutter for a local laundromat service
- Enabled users to schedule laundry pickups, track order status, and make digital payments
- Created as a freelance solution for a local business; source code is private

Advanced Task Management System – Spring Boot & AngularJS   2024

- Developed a full-stack system with Spring Boot backend, AngularJS frontend, and MySQL database
- Implemented role-based dashboards and JWT-based authentication for Admin and Employee access
- GitHub: `https://github.com/vipunsanjana/fullStackApplicationSpringbootANDAngular`, `https://github.com/vipunsanjana/AdvancedTaskMangamentSystem.git`

Skills

Languages: Python, JavaScript/TypeScript, Java, SQL, Go, Ballerina, KQL, Dart, C, C++, PHP
Frameworks: NestJS, FastAPI, Flask, Flutter, NodeJS, Angular, Spring Boot, React, React Native, Express
DevOps Tools & Platforms: Git, Docker, GitHub Actions, Jenkins, Ansible, Terraform, Kubernetes
Cloud & Infrastructure: AWS, Azure
Scripting & Automation: Shell Scripting, Cron Jobs, Automation
Databases: MySQL, MongoDB, Firebase, MariaDB
Tools & IDEs: Postman, Jira, LaTeX, VS Code, IntelliJ IDEA, Android Studio, Arduino IDE
Platforms: Windows, Linux (Ubuntu, Kali), Arduino, ESP8266 and Raspberry Pi
Soft Skills: Problem Solving, Critical Thinking, Team Player, Communication, Continuous Learning

Certifications

- AWS Educate – Getting Started with Databases, Getting Started with Networking, May 2025
- AWS Educate – Introduction to Cloud 101, Getting Started with Compute, Getting Started with Storage, Apr 2025
- A–Z DevOps Course – ClouDev Technologies, Apr 2025
- Certified in PHP, Laravel, Python, Arduino, Java, C++, MySQL, and IoT – Academy of Future Robotics, 2021

Responsibilities and Volunteering

Design Team Member, RealHack 5.0   2024
- Designed promotional materials, social media content, and event branding

Technical Team Member, RealHack 4.0   2023
- Designed and implemented an IoT robot to light a coconut oil lamp, integrating sensors and automation for a traditional ritual

References

Dr. Nalin Warnajith
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