

VANUJA KARUNARATNE

Ratnapura, Sri Lanka

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SUMMARY

Computer Engineering student at the University of Ruhuna with a focus on Full-stack development and DevOps practices. Proven ability to rapidly adapt to new technology stacks and environments that emphasize collaboration and agile development. Strong analytical and problem-solving skills with the ability to design efficient solutions for complex technical challenges.

EDUCATION

BSc Engineering in Computer Engineering (Undergraduate) 2023 – Present

Faculty of Engineering, University of Ruhuna — Galle, Sri Lanka

Attorney at Law (Reading – On Hold) 2025 – Present

Sri Lanka Law College — Colombo, Sri Lanka

G.C.E. Advanced Level & G.C.E. Ordinary Level 2008 – 2021

R/Sivali Central College — Ratnapura, Sri Lanka

TECHNICAL SKILLS

- **Languages:** Java, JavaScript, Python, C++
- **Frontend Development:** React, Next.js, React Native, Tailwind CSS, HTML
- **Backend Development:** Node.js, ExpressJS, NestJS
- **Databases:** MySQL, PostgreSQL, MongoDB.
- **DevOps and Cloud Computing:** Docker, Jenkins, GitHub Actions, Terraform, Ansible, AWS
- **Tools:** Git, Jira

PROJECTS

EasyCase

Case Management System — MongoDB, Express, React, Node.js, Docker, Terraform, Ansible, Jenkins

GitHub Repository  | Live Demo 

- Developed a full-stack MERN application for managing legal cases and client data.
- Containerized the application using Docker and implemented a Jenkins CI/CD pipeline triggered via web hooks.
- Provisioned and managed production infrastructure using Terraform and Ansible following Infrastructure as Code (IaC) practices.

ScaleLab

Distributed Systems Simulation Platform — Next.js, TypeScript, Tailwind CSS, NestJS, WebSockets

GitHub Repository 

- Built a full-stack platform for designing distributed system topologies and running traffic simulations.
- Implemented secure authentication using JWT and OAuth 2.0.
- Developed WebSocket-based real-time updates for monitoring system traffic and performance metrics.

SayIDo

Wedding Directory Mobile App — React Native, Expo, TypeScript, GraphQL

GitHub Repository 

- Developed a mobile application for wedding vendors to manage profiles, bookings, and reservations.
- Implemented vendor authentication using JWT and GraphQL-based APIs.
- Built a real-time chat system using GraphQL subscriptions over WebSockets.

VOLUNTEERING ACTIVITIES

- Worked as a Public Relationship Team member in ReXtro-2025 exhibition organized by Faculty of Engineering, University of Ruhuna.
- Volunteer at Sasnaka sansada

REFERENCES

- **Dr. Thilina Weerasinghe**

Senior Lecturer

Department of Electrical and Information Engineering, Faculty of Engineering, University of Ruhuna

Email: thilina@eie.ruh.ac.lk

- **Mr. Thiwanka Silva**

Software Engineer

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