

Randika Karanayaka

Full-Stack Developer

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🌐 Randika Karanayaka 🔄 mdhrk2001

PROFILE

Motivated and detail-oriented software engineering undergraduate seeking hands-on experience in a professional environment. Passionate about web development using modern technologies, problem-solving, and collaborating in team-driven projects to build innovative solutions. Adapts quickly to new concepts, thrives in dynamic environments, and is committed to continuous learning and professional growth as a software engineer.

EDUCATION

Bachelor of Science Honours in Software Engineering, CINEC Campus, Malabe, Sri Lanka October 2022 – present
GPA: 3.55/4.0 (Last Semester: 4.0)

GCE Advanced Level, Rahula College, Matara, Sri Lanka 2018 – 2020
Physical Science stream (Passed)

PROFESSIONAL EXPERIENCE

Full-Stack Developer Intern, ClouDev Technologies July 2025 – January 2026
Deraniyagala, Sri Lanka.

- Contributed to full-stack web solutions for 3 client projects (GESI, MS Tours, and Ceylon Luxe).
- Developed and deployed end-to-end web applications using Next.js, Node.js, Express, MongoDB, and REST APIs.
- Collaborated in an Agile/Scrum environment, participating in sprint planning, daily stand-ups, and code reviews to deliver features on schedule.
- Used Git/GitHub for version control and team collaboration, following best practices for branching and pull requests.

PROJECTS

Smart Apparel Management System, 3rd Year University Group Project

- Developed a MERN stack-based web application to digitize inventory, streamline orders, and track production for SARADA Print & Apparel.
- Implemented AI-driven fabric-cutting optimization to reduce material waste and improve efficiency.
- Built a real-time tracking system with event-driven updates for seamless production monitoring.
- Designed an interactive T-shirt customization tool for personalized ordering.

(This project was selected for the CINEC International Research Symposium 2025.)

Tech Stack: React.js, Node.js, Express.js, MongoDB, Tailwind CSS, TensorFlow, Docker, Figma (for UI/UX)

GESI Smart Policing Platform, Client Project - Internship

- Developed a digital policing platform to enhance public trust, transparency, and service quality for the Sri Lanka Police.
- Implemented a dual feedback system (GESI-METER) with a voice-enabled complaint system and a service rating system to ensure accountability.
- Built a verified community panel for reporting common issues and a multimedia "I-HUB" for public legal education.
- Created a police station ranking system based on user feedback and built an admin side for different police levels.

Tech Stack: Next.js, Node.js, Express.js, MongoDB, Tailwind CSS, Firebase Auth, RESTful APIs, Docker, AWS

MS Tours Property Rental System, Client Project - Internship

- Developed a comprehensive travel platform integrating vehicle rentals, hotel bookings, and tour operations.
- Implemented dynamic billing with tiered subscriptions and distance-based calculations to automate financial reporting.
- Built an admin dashboard for end-to-end asset management, including CRUD operations covering vehicle fleets, property packages, and customer records.
- Designed a seamless booking lifecycle from availability checks and order processing to automated receipt generation.

Stack: Next.js, Node.js, Express.js, MongoDB, Tailwind CSS, Firebase Auth, Docker, AWS

Ceylon Luxe E-Commerce Platform, Internship project (ongoing)

- Developing a full-stack e-commerce platform with a custom admin dashboard for gem/jewellery inventory management.
- Implementing an automated "Horoscope Matching" module to calculate relationship compatibility and success rates.
- Building an intelligent engine recommending specific gemstones based on the user's birth data and zodiac signs.
- Designing a dynamic product management system with adaptive forms adjusting to specific jewellery categories.

Tech: Next.js, Node.js, Express.js, MongoDB, Tailwind CSS, REST APIs

Online Bookshop API, Individual Project

- Built a secure user system with JWT authentication login, encrypted passwords, email verification, and profile management.
- Connected to the Google Books API to display searchable, filterable book data in real time.
- Developed shopping cart and checkout features with invoice printing and RESTful APIs for core operations.

Technologies: React.js, Node.js, Express.js, MongoDB, Google Books API, JWT (JSON Web Token), JSON

Dev Connector API, Individual Project

- Designed and built a secure backend API for a developer social network.
- Applied JWT-based authentication, profile management, and protected routes.
- Structured for scalability with modular Express routing and MongoDB integration.

Tech Stack: Node.js, Express.js, MongoDB, Mongoose, JWT(JSON Web Token), bcrypt, Validator

Volunteer Web Application, 2nd Year University Group Project

- Developed a web platform for volunteer coordination and charity event management, improving resource distribution and event transparency.
- Implemented user authentication, admin-controlled approvals, and categorized event listings for better security and usability.

Technology Stack: HTML, CSS, JavaScript, PHP, MySQL, Figma (for UI/UX)

Hotel Booking System, University Group Project

- Designed and optimized a hotel booking system to improve performance, user experience, and scalability.
- Implemented key features such as room reservations, user authentication, and a dynamic pricing model.

Tech Stack: Java, MySQL

SKILLS

Languages: JavaScript (ES6+), TypeScript, Java, PHP, SQL
Frontend: React.js, Next.js, Redux, Tailwind CSS, HTML, CSS
Backend: Node.js, Express.js, Firebase (Firestore, Auth), RESTful APIs
Databases: MySQL, MongoDB
Cloud & DevOps:: AWS (S3), Google Cloud Platform (GCP), Docker
Tools & Workflow: Git, GitHub, Postman, Figma (UI/UX), Trello, Jira, Clickup, Agile/Scrum

CERTIFICATE COURSES

Master Machine Learning in Python (Mastery), Great Learning	February 2025 – present
Linux Essentials, Cisco Networking Acadamy	January 2026 – Present
Docker Hands-On Workshop Series, University of Kelaniya	January 2026 – Present
Web Design for Everybody: Basics of Web Development & Coding (Specialization), Coursera	March 2025 – August 2025
MERN Stack Front to Back (Specialization), Coursera	April 2025 – December 2025

ORGANISATIONS

Tech Strike Club, CINEC Campus, Member	2023 – present
Athletics Team, Rahula College, Former Athlete	2013 – 2015
Students' Medical Unit, CINEC Campus, Media Coordinator	2024 – 2025

LANGUAGES

English
Sinhala

REFERENCES

Mrs. Suranji Nadeeshani, *Dean / Senior Lecturer*, Faculty of Computing, CINEC Campus
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Mrs. Maduwanthi Uthpala, *Head of Department / Senior Lecturer*, Faculty of Computing, CINEC Campus
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