

Nethna Oshad

✉ nethna2001oshad@gmail.com ☎ +94 71 707 7970 🔗 Nethna-oshad in nethna-oshad 🌐 Nethna-Oshad

Personal Summary

Ambitious Software Engineer with practical industry experience building scalable end-to-end applications. A highly collaborative team player proficient in Spring Boot, Next.js, and the MERN stack, with hands-on expertise in robust API development, system design, UI/UX optimization, and CI/CD pipelines. Dedicated to clean code practices, automated testing, and engineering innovative technical solutions.

Experience

Software Engineering Intern, SLT Mobitel

Aug 2025 – Feb 2026

- **Security & Architecture:** Engineered a secure MERN-stack enterprise application implementing JWT authentication, Bcrypt password hashing, and Role-Based Access Control (RBAC).
- **Database & Logic Optimization:** Optimized high-volume queries via indexing and asynchronous fetching across relational (PostgreSQL) and non-relational (MongoDB) schemas.
- **Backend API Optimization:** Engineered high-performance APIs using Node.js, Express.js, and MongoDB to maximize data handling efficiency.
- **Frontend UI & Visualization:** Built responsive, cross-device user interfaces by using React.js, TypeScript, Tailwind CSS, and Chart.js for real-time data visualization and operational analytics.
- **Deployment & Maintenance:** Collaborated in deploying and maintaining a production-ready application with hosting and configuration support, ensuring system stability and uptime.
- **Collaboration & Project Management:** Managed concurrent projects under strict deadlines, resolving complex architectural blockers alongside cross-functional Agile teams.

Projects

Smart Campus Operations Hub | Full-Stack Developer

[View](#) 

- Engineered a full-stack university campus management system using **Spring Boot, React.js, and MongoDB** to streamline facility bookings and resource allocation.
- Developed a real-time “Live Status Fusion” engine that aggregates booking and maintenance data to prevent scheduling conflicts and ensure 100% accurate room availability.
- Architected secure RESTful APIs with robust authentication protocols and designed an interactive dashboard featuring QR-based digital access and optimized user flows.

Travel & Transport Platform | Full-Stack Developer

[View](#) 

- Spearheaded the development of a highly scalable travel booking and vehicle rental platform utilizing **React.js and Tailwind CSS**.
- Integrated the **WhatsApp API** to establish real-time communication pipelines, automating instant booking confirmations and customer support workflows.
- Optimized frontend performance and user engagement by implementing responsive, mobile-first designs and advanced animations using **Framer Motion**.

Smart Hostel Management System | Full-Stack Developer

[View](#) 

- Built a production-ready accommodation platform using the **MERN stack**, implementing secure authentication, room allocation, and digital receipts featuring QR codes.
- Integrated a comprehensive student review system and the **Google Gemini AI API**

to architect an intelligent virtual assistant, automating user query resolution and enhancing platform interactivity.

- Established robust DevOps pipelines by implementing **CI/CD via GitHub Actions** for continuous integration and deployment and writing automated end-to-end tests using **Playwright** to ensure cross-browser reliability and reduce UI defects.

Skills

Languages: JavaScript, TypeScript, Java, Python, SQL

Backend & Databases: Node.js, Express.js, Spring Boot, MongoDB, MySQL, Oracle PL/SQL, PostgreSQL

Frontend & UI: React.js, Next.js, Tailwind CSS, Framer Motion, Responsive Web Design

DevOps & Testing: Git, GitHub Actions (CI/CD), Playwright

APIs & Architecture: RESTful APIs, Swagger/OpenAPI, Google Gemini API, Postman, JWT Authentication

Education

Sri Lanka Institute of Information Technology (SLIIT)

May 2023 – Jun 2027

B.Sc (Hons) in Information Technology

General Certificate of Education (Advanced Level)

Physical Science Stream

Certifications

AI/ML Engineer - Stage 1

[View](#)

- Acquired foundational knowledge in artificial intelligence and machine learning, including model training and data preprocessing techniques.

Python for Beginners (Verification Code: eTxIULp0W8)

[View](#)

- Mastered core Python programming concepts, including data structures, file handling, and scripting for automation.

References

Eng. Hashini Dassanayake

Engineer - Digital Projects II, Sri Lanka Telecom

Email: hashinid@slt.com.lk

Mobile: [+94 70 476 2934](tel:+94704762934) | [+94 71 631 7576](tel:+94716317576)

Dishan Shirantha

Assistant Director ICT, Department of IT Management, Ministry of Finance

Email: dishanshirantha@gmail.com | shirantha.ed@itmd.treasury.gov.lk

Mobile: [+94 718 031 678](tel:+94718031678)