Lishan Dissanayake

📞 +94 70 111 4530   ✉ lishan.21@cse.mrt.ac.lk   📍 Malabe, Sri Lanka

🌐 www.lishan.me   in linkedin.com/in/lishan-dissanayake   github.com/LishanSD   Ⓜ medium.com/@LishanSD

Profile

I find great pleasure in acquiring new skills and knowledge as I work toward becoming the best version of myself. I continually enhance my expertise through ongoing learning, especially in the areas I'm passionate about, **Blockchain**, **Web3 Development**, **Full-Stack Development**, **Mobile App Development**, and **Fintech**.

Education

University of Moratuwa   *May 2022 – Present*
B.Sc. Engineering Honours, Computer Science & Engineering

D.S. Senanayake College, Colombo 07   *Jan 2012 – Nov 2020*
Advanced Level | Physical Science
- **G.C.E. A/L Examination (2020):** 3A's | Island Rank 188 | Z Score 2.4716
- **G.C.E. O/L Examination (2017):** 9A's

Experience

IXD Labs (PVT) LTD   *Dec 2024 - May 2025*
Software Engineer Intern
- Contributed to full-stack development of two major company projects, Fitsmiles and Fitconnect.
- Architected and implemented RESTful APIs using Spring Boot microservices, designed optimized PostgreSQL and MongoDB database schemas, and integrated Keycloak for authentication in Fitsmiles.
- Led end-to-end feature development for Fitconnect, handling both backend logic with Django REST Framework and dynamic client-side implementations.

Tech Stack: *Spring Boot | Django | React | TypeScript | PostgreSQL | MongoDB | Keycloak | Swagger*

Projects

Improving Blockchain Scalability with ZK-Rollups (Ongoing)   *June 2025 - Present*
Solidity | Ethereum | Node.js | TypeScript
- Designing and implementing a zero-knowledge (ZK) rollup solution to address Ethereum's scalability challenges. A fully functional and configurable modular ZK-Rollup will be deployed on an Ethereum testnet for experiments.

GemTrace (Ongoing)   *Sep 2025 - Present*
React Native | React | Next.js | Solidity | Ethereum | Express.js | PostgreSQL
- A decentralized gemstone provenance and tracking platform ensuring transparency from mine to customer using blockchain technology, which enables buyers to verify gem authenticity and entire history.

GoTogether ↗   *Mar 2025 - June 2025*
React Native | React | Spring Boot | Go | PostgreSQL
- An AI-driven travel management platform for foreign and local Sri Lankan travellers. GoTogether offers seamless web and mobile interfaces, dynamic itineraries, transport integration, and social features to enhance island exploration.

TrackMyVan ↗   *Oct 2025 - Dec 2025*
React Native | Firebase
- A mobile application for real-time tracking, notifications, and safety updates for school van transport services in Sri Lanka, improving communication and parental peace of mind.

Post Office Management Information System ↗   *June 2024 - Nov 2024*
React | React Native | Express JS | PostgreSQL
- A post office management system designed to efficiently manage the services in Sri Lanka Post. The system consists of a customer web application, an employee web application and a postman assistant mobile application.

Airline Reservation System ↗   *Aug 2023 - Nov 2023*
React | Next JS | MySQL

- An airline web application to check flight schedules, book air tickets and all the tasks related to booking a flight. Customers and admins have two separate interfaces to fulfil their specific needs.

Dictionary Application ↗ *April 2024 - May 2024*

C++

- A dictionary application developed using C++ OOP concepts. The functionalities include word searching, palindrome detection, rhyme searching, a word guessing game, and the ability to add new words.

Nanoprocessor ↗ *May 2023 - Jun 2023*

VHDL | Xilinx Vivado

- A four-bit microprocessor capable of executing 4 instructions. The processor consists of an instruction decoder, a register bank, a ROM and other sub-components.

Technologies

Programming Languages: Java, C++, C, Python, JavaScript, TypeScript

Frontend: React

Mobile: React Native

Backend: Spring Boot, Express.js, Node.js, Django

Database: PostgreSQL, MySQL, MongoDB, Prisma ORM

Cloud and DevOps: AWS, Kubernetes, Docker, Firebase, GitHub Actions, Vercel

Tools: Keycloak, Postman, Swagger

Articles

- Common Security Vulnerabilities in Software: Risks and Countermeasures ↗

Extra Curricular

Mathematics Society, University of Moratuwa

Vice President of HR Management and Logistics *Oct 2023 - Dec 2024*

Committee Member *Nov 2022 - Oct 2023*

Department of Computer Science & Engineering, University of Moratuwa

Dev Committee Member | CSE 40 *Feb 2025 - April 2025*

Selection Committee Member | SLIoT Challenge 2023 *Oct 2023 - Mar 2024*

Logistics Committee Member | CSE Careers Day 2024 *Dec 2023 - Jan 2024*

IEEE Student Branch, University of Moratuwa

Committee Member *Mar 2023 - Dec 2024*

Rotaract Club, University of Moratuwa

Company Coordinator | RUR Company Coordination 2023 *Jan 2023 - Feb 2023*

Science Society, D.S. Senanayake College

Committee Member *Mar 2018 - Aug 2020*

Honours and Awards

Dean's List

University of Moratuwa

- Semester 6 (SGPA 4.0/4.0).

Olympiads

Sri Lanka Olympiad Mathematics Foundation | Sri Lankan Junior Science Olympiad

- Mathematics Olympiad 2017 | Junior Science Olympiad 2013

References

Dr. H.H.S.R. Samarasiri

Senior Lecturer, Department of Mathematics, University of Moratuwa

Phone: +94 77 362 8983

Email: supems@uom.lk

Prof. Dulani Meedeniya

Senior Lecturer, Department of Computer Science and Engineering, University of Moratuwa

Phone: +94 71 393 5801

Email: dulanim@cse.mrt.ac.lk