

MATHEESHA ABIMAN

Undergraduate

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Summary

Motivated Computer Science undergraduate at IJSE and BIT undergraduate at the University of Moratuwa with strong foundations in Java, Python, JavaScript, TypeScript, SQL, and React. Passionate about software development and UI/UX design, with hands-on experience building user-focused applications and solving real-world problems. A collaborative team player committed to continuous learning and delivering impactful, innovative solutions.

Skills

Programming Languages: Java, Python, JavaScript, TypeScript, SQL

Frontend Development: React, React Native, TailwindCSS, Expo, Figma (UI/UX design)

Backend Development: Node.js, Express.js, Spring Boot, Java Servlets, Hibernate, RESTful APIs

Databases: MySQL, MongoDB Atlas, Firebase Firestore

Experience

Student Committee Organizer

Dec 2025 – Present

IJSE – Institute of Software Engineering, Galle, Sri Lanka

Part-time

- Organized academic and extracurricular events, workshops, and programs while coordinating with lecturers and student teams.
- Managed communications and developed leadership, teamwork, and event management skills.

Student Committee Social Media Coordinator

Dec 2024 – Nov 2025

IJSE – Institute of Software Engineering, Galle, Sri Lanka

Part-time

- Organized and coordinated academic events, workshops, and student programs while managing communications with lecturers and student teams.
- Planned social media strategies, created promotional content, participated in student projects, and developed leadership, teamwork, and coordination skills.

Graduate Student / Campus Volunteer

Mar 2023 – Jul 2023

The Beeline Campus, Galle, Sri Lanka

Full-time

- Participated in student-led academic projects and campus activities, gaining exposure to collaborative learning and coordination.

Science Society Member

2019 – 2022

St. Aloysius' College, Galle, Sri Lanka

Part-time

- Engaged in science events, workshops, and competitions to develop analytical, research, and teamwork skills.

Projects

EasyInvoice – Mobile Billing App | *React Native, Firebase* | [GitHub](#)

2025

- Developed a cross-platform mobile billing app enabling users to create, manage, and share professional invoices directly from their devices.
- Implemented secure Firebase Authentication and Firestore database to support user-specific bill storage with full CRUD functionality.
- Built dynamic invoice generation with automatic total calculations and multi-item support using React Context API for state management.
- Integrated PDF generation and instant sharing via Expo Print, FileSystem, and Sharing APIs.

Strategic Patient Risk Stratification | *Python, BeautifulSoup, Seaborn*

2025

- Developed a predictive risk model for "Vitality Health Network" using the Diabetes 130-US Hospitals dataset (100k+ encounters) to mitigate HRRP financial penalties.
- Engineered a custom **Vitality Complexity Index (VCI)** based on the LACE index to stratify patients into high, medium, and low-risk categories.

- Built a web scraper using **BeautifulSoup** to retrieve human-readable ICD-9 disease descriptions, enriching clinical data with external context.
- Performed extensive data sanitation, including standardizing nulls and handling high-dimensionality categorical features.

RideEasy – Bike Rental Platform | *MERN Stack, TypeScript* | [Backend](#) , [Frontend](#) **2025**

- Engineered a full-stack bike rental platform with secure authentication, bike booking system, and admin analytics dashboard.
- Developed RESTful APIs using Node.js and Express with JWT-based authentication and bcrypt encryption.
- Built responsive frontend using React, TailwindCSS, and Redux for global state management.

Ceylon Antique Marketplace | *Spring Boot, MySQL, JavaScript* | [GitHub](#) **2025**

- Created a full-stack e-commerce platform for buying/selling Sri Lankan antiques with secure JWT authentication.
- Implemented product listings, advanced search/filtering, and PayHere payment gateway integration.
- Built an admin dashboard with role-based access control to manage users, orders, and transactions.

Serenity Therapy Center Management | *JavaFX, Hibernate, MySQL* | [GitHub](#) **2024**

- Developed a desktop system to handle patient registrations, therapy sessions, and secure therapist authentication.
- Implemented Hibernate ORM with proper entity relationships and BCrypt password encryption.
- Designed invoicing and reporting modules with role-based system access for clinic management.

Institute Management System | *Java, MySQL, JasperReports* | [GitHub](#) **2024**

- Built a standalone application to manage student enrollments, course administration, and financial operations.
- Integrated JasperReports for dynamic generation of invoices and detailed financial summaries.
- Optimized backend operations using MySQL and Lombok; designed UI using JavaFX SceneBuilder.

Complaint Management System | *Java JSP, Servlets, MySQL* | [GitHub](#) **2024**

- Built a role-based tracking system enabling users to submit and monitor the resolution status of issues.
- Developed dashboards for admin/employees with status tracking (Pending, In Progress, Resolved).

Awards & Certifications

- **Introduction to UI/UX Design – Alison (2026):** Completed a CPD certified program covering user experience and interface design principles.
- **Front-End Web Development – University of Moratuwa (2025):** Participated in an online learning programme through the Faculty of IT and CODL.
- **Web Design for Beginners – University of Moratuwa (2025):** Successfully completed the online learning programme in web design.
- **Python for Beginners – University of Moratuwa (2025):** Completed the online learning programme covering fundamental programming concepts, data structures, and algorithmic logic.

Education

University of Moratuwa <i>Bachelor of Information Technology</i>	July 2025 – Present <i>Moratuwa, Sri Lanka</i>
IJSE - Institute of Software Engineering <i>Graduate Diploma in Software Engineering</i>	March 2024 – Present <i>Galle, Sri Lanka</i>
St. Aloysius' College <i>G.C.E. Advanced Level (Physical Sciences)</i>	Jan 2009 – Dec 2022 <i>Galle, Sri Lanka</i>