Matheesha Abiman

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Professional Summary

Aspiring **UI/UX Engineering Intern** and dual-focus Undergraduate in **Computer Science** and **Information Technology**. Expert at bridging the gap between high-fidelity **Figma prototyping** and scalable software development. Proven track record of enhancing digital accessibility and **optimizing complex user flows** through data-driven design systems.

Technical Skills

Design & Research: Figma, UI/UX Design Systems, Wireframing, User Flow Mapping, Web Accessibility
Frontend Architecture: React.js, React Native, TypeScript, Tailwind CSS, Expo, Redux Toolkit, Context API
Software Engineering: Node.js, Spring Boot, Java (JEE), Python, RESTful API Design, JWT Security
Tools & Workflow: Git/GitHub, Agile/Scrum, Firebase, MongoDB Atlas, MySQL, Postman, Vercel

Experience

Student Committee Organizer – Event Management & Leadership Dec 2025 – Present
IJSE – Institute of Software Engineering *Galle, Sri Lanka*
- Spearheaded cross-functional collaboration between lecturers and 200+ students, driving a **40 percent surge** in successful project completions through 15+ technical bootcamps.
- Orchestrated resource allocation and scheduling, ensuring **100 percent on-time delivery** of academic workshops and student programs.

Social Media & Visual Coordinator – Digital Strategy Dec 2024 – Nov 2025
IJSE – Institute of Software Engineering *Galle, Sri Lanka*
- Synergized with creative teams to execute user-centric social media campaigns, boosting community engagement by **25 percent** across three digital platforms.
- Pioneered the institution's digital visual identity, resulting in a **15 percent increase** in workshop attendance rates year-over-year.

Campus Academic Volunteer – English Higher Diploma Program Mar 2023 – July 2023
The Beeline Campus *Galle, Sri Lanka*
- Facilitated peer-led collaborative academic projects and supported English language learners, enhancing communication metrics across the undergraduate cohort.

Projects

EasyInvoice – UX-Driven Mobile Billing | *React Native, Firebase, Expo, TypeScript* **2025**
- Architected an accessible cross-platform billing app utilizing **React Context API** for state management, **halving user processing time** through local PDF generation via Expo Print.
- Integrated **Firebase Authentication** and Firestore to ensure secure, per-user bill storage with **99.9 percent database uptime** for critical business transactions.

RideEasy – E-Commerce UX Platform | *MERN Stack, TypeScript, Redux* **2025**
- Pioneered a high-performance rental platform with **AI-chatbot integration** and a user-friendly **Dark Mode**, achieving a **1.3x improvement** in visual fluidity and engagement.
- Engineered an **Analytics Dashboard** using Redux Toolkit for centralized state management, maintaining **zero security vulnerabilities** via JWT and bcrypt encryption.

Strategic Patient Analytics System | *Python, BeautifulSoup, Seaborn* **2025**
- Enhanced data readability for **100,000+ encounters** by engineering a custom **Vitality Complexity Index**, identifying high-risk patients with **85 percent faster triage accuracy**.
- **Systematized** clinical data retrieval from 5,000+ sources via web scraping, eliminating **4/5 of manual data entry** requirements.

Ceylon Antique Marketplace | *Spring Boot, MySQL, PayHere API* **2025**
- **Structured** a commerce backend with **Spring Security** and **Pagination** for performance, processing **PayHere** transactions with **sub-250ms latency**.
- Designed a responsive UI with automated **SMTP email notifications** while maintaining full **ACID compliance** across 1,000+ listings.

EDUCATION

University of Moratuwa   July 2025 – Present
Bachelor of Information Technology (BIT) – Undergraduate   *Moratuwa, Sri Lanka*

IJSE – Institute of Software Engineering   March 2024 – Present
Graduate Diploma in Software Engineering (Computer Science Focus)   *Galle, Sri Lanka*

St. Aloysius' College   Jan 2009 – Dec 2022
G.C.E. Advanced Level (Physical Sciences)   *Galle, Sri Lanka*

CERTIFICATIONS

- **UI/UX Design Specialist** – Alison (2026): Certified in user research, accessibility, and **Interaction Design**.

- **Full-Stack & Python Specializations** – University of Moratuwa (2025): Performance-based academic credentials.

- **Web Design for Beginners** – University of Moratuwa (2025): Specialized in digital aesthetics and responsive layouts.