

Randi Kaweesha

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About Me

Third-year Information Technology undergraduate at the University of Moratuwa seeking a Software Engineering Internship. Experienced in designing and developing software, web, and mobile applications, with a focus on creating practical and user-oriented solutions. Strong interest in software engineering, artificial intelligence, and cloud technologies, with a passion for building secure, scalable, and user-focused solutions. Eager to learn new technologies, continuously improve technical skills, and grow through hands-on experience and collaboration.

Education

University of Moratuwa March 2024 – Present

- BSc (Hons) in Information Technology
- CGPA: 3.49
- **Relevant Coursework:** Software Engineering | Object Oriented Programming | Database Management | Networking | Data Structures & Algorithms

Experience & Volunteering

IEEE Student Branch, University of Moratuwa Apr 2026 – Present

- Volunteer Management Committee Member
- Delegates Handling Committee Member – Innovate with Ballerina
- Delegates Handling Committee Member – MoraXtreme 10.0 | IEEEExtreme 19.0

University of Moratuwa – Clubs & Societies

- IEEE Robotics & Automation Society | Editorial Committee Member – MazeX 1.0
- IEEE WIE UoM | Organizing Committee Member – Hackelite 2.0
- INTECS | Organizing Committee Member – FIT Future Careers 2025

Certificates & Achievements

- Python Programming Course (UoM – Open Learning Platform)
- Web Design for Beginners (UoM – Open Learning Platform)
- J'PURA XTREME (Hackathon Participant)

Notable Projects

GreenCycle LK (Ongoing) | *React 18, TypeScript, Vite, Tailwind CSS, Leaflet, REST APIs* 🌐 GitHub

- Developing a smart municipal solid-waste management platform connecting residents, municipal officers, and collectors to streamline waste reporting, dispatching, and disposal.
- Engineered the **Disposal Center Management** module featuring interactive facility directories, multi-criteria filtering, detail views, and map-based geographic navigation.
- Implemented operational workflows across **Municipal and Admin Dashboards**, enforcing multi-stage request lifecycles (Pending → In Progress → Completed) and structured admin user suspension management.

WhizBoard (AI Agentic Whiteboard) | *Next.js, React 19, TypeScript, Excalidraw, Google Gemini AI, Neon Postgres, Drizzle ORM, Clerk* 🌐 GitHub

- Built an AI-powered collaborative visual workspace integrating **Excalidraw** and **Google Gemini AI** for automated prompt-to-diagram generation (flowcharts, mind maps, architecture diagrams).
- Developed real-time WebP thumbnail previews, multi-board workspace organization, soft-deletion/archival workflows with instant restore, and tiered free-plan board limits.
- Configured serverless relational persistence using **Neon PostgreSQL** with **Drizzle ORM**, and implemented secure user authentication and route protection with **Clerk**.

Unify | *React 18, Node.js, Express.js, PostgreSQL, Socket.IO, Docker, AWS Lightsail*  [GitHub](#) |  [unify-social.app](#)

- Developed full-stack authentication, profile management, settings, and role-based access control for a multi-role university social platform supporting Students, Clubs & Societies, and Business users.
- Implemented secure authentication with JWT access/refresh tokens, token rotation, multi-channel OTP verification, phone normalization, password management, and account soft deletion.
- Engineered real-time communication using **Socket.IO**, including conversation management, message persistence, participant authorization, unread counts, encrypted message storage, and automated testing.

QuickShow | *React (Vite), Node.js, Express, MongoDB, Clerk, Inngest, TMDB API*  [GitHub](#)

- Built a full-stack movie ticket booking application with an interactive real-time seat selection grid, **TMDB API**-powered movie discovery, and **Clerk** authentication with social login support.
- Developed a comprehensive Admin Dashboard featuring revenue analytics, show scheduling with custom pricing, seat occupancy tracking, and full customer booking management.
- Integrated **Inngest** for background task processing and **MongoDB** with Mongoose ORM for data persistence; implemented Clerk middleware for secure role-based admin access control.

Technical Skills

- **Languages:** Python, JavaScript, TypeScript, Java, C
- **Frameworks:** React, Next.js, Node.js, TailwindCSS
- **Databases:** MySQL, PostgreSQL, MongoDB, Neon
- **Tools & Platforms:** Git, Docker, AWS, VS Code, Figma, Postman, Socket.IO
- **Other:** REST APIs, Clerk Auth, Inngest, Drizzle ORM, Sequelize

References

Mr. Nisal Sudila
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