

# Janindu Amaraweera

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## SOFTWARE ENGINEERING UNDERGRADUATE

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Third-year Software Engineering undergraduate seeking a full-time, one-year internship as part of academic requirements. Passionate about building scalable, user-centered software solutions, with hands-on experience in real-world projects. Eager to contribute to development teams and enhance technical and problem-solving skills through industry exposure.

### Projects

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#### Software Solution for GSMB and Miners – Second-Year Group Project (Team of 6 members)

September 2024 – April 2025

- Recognized as **2nd Runners-up** at **Cutting Edge 2025**, organized by IIT, for delivering one of the most impactful and innovative second-year CS/SE projects
- Engineered and deployed a full-stack web application for GSMB, replacing over 10 manual workflows and cutting data entry time by **60% for 5000+ active users**.
- Designed and implemented a royalty calculation module for **5000+ miners**, automating processes and enabling real-time online submissions.
- Resolved **15+ bugs** by collaborating with frontend and backend teams, improving system performance and user experience. **Enhanced usability by 70%** by implementing a **bilingual interface** (Sinhala & English), aligning the platform with diverse user needs.
- Developed two full-stack web applications: an Admin Portal for **50+ GSMB officials** to manage mining operations and a client Portal enabling **5000+ miners** to digitally submit data and auto-calculate royalties. Delivered 3+ project demos, incorporated stakeholder feedback, and eliminated 90% of previous manual processes through system refinement.
- Delivered a **full-stack web application in 5 months** by applying Agile and SDLC methodologies, collaborating with 5+ stakeholders for requirement gathering, conducting **10+ system testing** cycles, and implementing 15+ end-to-end features, ensuring 100% on-time delivery and client satisfaction.
- Collaborated with **real-world clients**, including **GSMB officials** and **5,000+ miners**, gaining hands-on experience in communication, requirement analysis, and stakeholder management while contributing to a **large-scale ERP** project.

#### Open-Source Learning Platform

February 2025 – May 2025

- Launched a free online learning platform using **Next.js**, serving over **500+ software engineering and computer science students across Sri Lanka**, enhancing access to structured, self-paced tech education.

- Developed and integrated **20+ curated YouTube series**, **30+ documentation pages**, and tutorials to build a centralized resource hub, leading to a **50% increase in user engagement** within the first 3 months.
- Collected and applied feedback from **early testers** to iterate on **UI/UX** design and content structure, improving navigation efficiency by **40%**
- Promoted the platform through university communities and online forums, resulting in **organic growth to 500+ users** with consistent weekly active sessions and positive peer feedback.
- Built a **mobile-optimized**, scalable front-end architecture using **Next.js** and **Tailwind CSS**, enhancing user experience for **90%** of early testers on both mobile and desktop platforms.

**Plane Seat Management System**

January 2025 - April 2025

- Built a Java-based seat management system for private aviation as part of a university project, applying **OOP principles** and simulating real-world booking challenges to improve seat allocation accuracy and reduce **scheduling errors by 70%**.
- Applied **Object-Oriented Programming (OOP)** principles to model flight operations, improve seat management efficiency by 50%, and reduce scheduling conflicts by 70% in simulated use cases.
- Developed a **full-stack seat reservation system** with a dynamic React.js frontend for real-time seat selection and a scalable **Spring Boot backend**, enabling smooth **API** communication and reducing user **navigation errors by 60%** through an intuitive interface and clean architecture.
- Supported up to **200 concurrent simulated reservations** during testing, demonstrating scalability and real-time responsiveness.

**Skills & abilities**

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|-----------------------|-------------------------|
| • Java                | • JavaScript            |
| • Python              | • Next.js               |
| • React               | • Web Development       |
| • Node.js             | • Version Control (Git) |
| • Database Management | • Agile Methodology     |
| • SQL                 | • Flask                 |
| • Tailwind CSS        |                         |

**Education**

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<b>BEng (Hons) Software Engineering</b> — University of Westminster	<b>2023-2027</b>
<b>G.C.E. Advanced Level (Mathematics)</b> — Rahula College Matara	<b>2022</b>
<b>G.C.E. Ordinary Level (English Medium)</b> — Rahula College Matara (Achieved 9 A's)	<b>2019</b>