

MICHEL RUWISHKA

SOFTWARE ENGINEERING UNDERGRADUATE

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SUMMARY

An undergraduate software engineering student (Level 5) at the Informatics Institute of Technology (IIT), affiliated with the University of Westminster. I have solid expertise in full stack development and real-world experience in creating scalable and responsive applications with Node.js, React and Java. Real-world experience designing AI-powered backend solutions, optimizing intricate database connections and implementing strict Git version controls in collaborative teams. I am an experienced leader of multi-disciplinary academic projects and have delivered the projects successfully with efficient completion of the technical milestones. I am excited to apply my software architecture expertise, problem solving and technical curiosity in a professional Software Engineering internship.

EDUCATION

BEng (Hons) Software Engineering Informatics Institute of Technology Affiliated with University of Westminster, UK	September 2024 – Present
Foundation Certificate in Higher Education (IT) Informatics Institute of Technology	2023 – 2024 (Merit)
Advanced Certificate in Information and Communication Technology BCI Campus, Negombo	2023 (Credit)

TECHNICAL SKILLS

- **Languages:** Java, JavaScript, Python, C++
- **Web & Frameworks:** Node.js, React, Spring Boot, HTML, CSS
- **IoT & Electronics:** ESP32 Development, Circuit Designing and Prototyping
- **Databases:** MySQL, Firebase
- **Tools:** Git/GitHub, Figma (UI/UX), IntelliJ IDEA, VS Code, Arduino IDE

CERTIFICATIONS & EXTRACURRICULAR ACTIVITIES

- **Professional Skills Development:** Completed a Certificate in English (Intermediate Level) at BCI Campus, taking initiative to enhance professional communication skills alongside technical studies.
- **Java: Advanced Concepts for High-Performance Development:** Completed advanced coursework to strengthen Object-Oriented Programming skills, demonstrating a commitment to continuous professional development beyond the university curriculum.

- **Independent IoT Engineering:** Designing and prototyping custom smart home solutions using ESP32 microcontrollers, applying theoretical circuit knowledge to practical, self-initiated hardware projects.

ACADEMIC PROJECTS

Smart Wholesale Platform | Live Site: trade-xs.com

- Leading a 6-person development team to build an AI-powered B2B marketplace, coordinating task distribution and resolving technical blockers to ensure timely delivery.
- Responsible for Node.js backend architecture, database integration and developing an AI-driven negotiation engine and product matching system to streamline local manufacturing B2B transactions.
- Implemented Git version control to manage team contributions, facilitating technical communication to resolve complex merge conflicts and maintain code integrity.

Technologies: *Node.js, React, Firebase, Git/GitHub*

UN Sustainable Development Goals Educational Platform

- Lead the students in development team to build an interactive educational web platform for SDG Goal 13, establishing technical milestones to successfully meet strict academic deadlines.
- Engineered a highly responsive, dynamic frontend using JavaScript, HTML5 and CSS, implementing cross-browser compatibility and strict web accessibility standards.

Technologies: JavaScript, HTML/CSS

Custom Smart Home Automation System

- Engineered an ESP32-based smart home automation network, implementing custom network monitoring features to actively track device connectivity, uptime, etc.
- Developed a custom IR remote control interface featuring tailored security protocols to prevent unauthorized access and ensure secure interactions within the home network.
- Currently integrating the Spotify API to synchronize media playback with custom WLED-driven ambient lighting for dynamic, automated audiovisual experiences.

Technologies: *ESP32, C++, WLED, Network Diagnostics, Spotify API*

REFERENCES

Mr. Crishan Perera

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Mr. Vathila De Silva

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