

KAVISHKA DULSHAN

B.Sc. (Hons) in Software Engineering (Undergraduate)

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OBJECTIVE

A motivated Software Engineering undergraduate with a strong passion for continuous learning through hands on building. Experienced in developing full stack software, IoT systems, and AI driven applications. Driven by a natural curiosity for how technologies operate under the hood, combining solid technical execution with effective collaboration and teamwork.

EDUCATION

- **B.Sc. (Hons) in Software Engineering (2024 – Present)**
 - National School of Business Management – Faculty of Computing (NSBM Green University)
 - **CGPA:** 3.81 (4 semesters)
 - **Semester GPA:** (Semester 1 – 3.86, Semester 2 – 4.0, Semester 3 – 3.66, Semester 4 – 3.74)
- **GCE Advanced Level Examination (2021) – Commerce Stream**
 - Kalutara Vidyalaya National School, Kalutara
 - ICT, Accounting, Economics
- **Diploma in English – Britishway English Academy (2019)**

PROJECTS

1. [BlinkChat](#) – A cross platform real time messaging app utilizing Socket.io, Node.js, MongoDB, and Azure. Secures user data with JWT authentication and MFA, featuring automated CI/CD deployment pipelines.
2. [Go4 \(Multimodal AI Retail Navigator\)](#) – An AI powered retail mobile app built using Flutter, Node.js, Express, and MongoDB. Integrates Gemini and OpenAI APIs for multimodal (text, voice and image) search and personalized recommendations, deploying a containerized backend orchestrated via automated GitHub Actions CI/CD pipelines.
3. [Restaurant POS System](#) – A local, offline first Point of Sale application built using Flutter, Node.js, PostgreSQL, and Docker. Features "Smart KOT" logic to intelligently route orders and uses Docker to simulate hardware execution for 100+ daily orders.
4. [Smart Companion Robot](#) – An interactive Edge AI desktop companion programmed with C++, ESP32 S3, and Edge Impulse. Features MPU6050 motion tracking and a custom machine learning model achieving around 70% on device keyword recognition accuracy.
5. [Intelligent IoT Boat Control System](#) – An aquatic waste collection prototype utilizing Raspberry Pi, ESP32, Python, and C++. Designed a distributed "Command Bridge Actuator" network architecture with hardware modifications for stable UART communication.
6. [Relper \(Read Helper\)](#) – An open source cross platform AI integrated PDF reading assistant built with React, PDF.js, Python, and Flask.

TECHNICAL SKILLS

- **Languages** – JavaScript, Python, Dart, PHP, Java, C++, C#, HTML & CSS
- **Core Concepts** - Data Structures & Algorithms, SDLC , ADBMS
- **Frontend & Web Development** - React, Flutter, Tailwind CSS
- **Backend & APIs** - Node.js (Express), .NET 8 (C#), Jakarta EE 10, Python (Flask), RESTful APIs
- **Databases & Infrastructure** - MySQL, MongoDB, PostgreSQL, Azure, Docker, GitHub Actions
- **Hardware & Edge AI** - ESP32 S3, Raspberry Pi, Edge Impulse (TinyML), UART
- **APIs & Services** – Firebase, Gemini API, Groq, Serper.dev
- **Version Controlling** - Git, GitHub

SOFT SKILLS

- **Leadership & Communication** – Coordinated and led several university project teams of 6 –10 members.
- **Mentoring & Tutoring** – Tutored Ordinary Level (O/L) and Advanced Level (A/L) students in ICT, simplifying complex technical concepts.
- **Problem-Solving & Initiative** – Autonomously managed and successfully delivered real world freelance and academic projects.
- **Adaptability** – Versatile and effective at bridging the gap between hardware development and software architecture.

CERTIFICATIONS

- **Web Design for Beginners** - University of Moratuwa (July 2025)
- **Python for Beginners** - University of Moratuwa (September 2023)
- **EF SET English Certificate** - 67/100 (C1 Advanced) (June 2024)
- **From Relational Model (SQL) to MongoDB's Document Model** (March 2026)

EXTRA CURRICULAR ACTIVITIES

- **Blog Writer** - Research and publish articles focusing on software development, modern web tools, IOT and technical architectures, simplifying complex programming concepts for readers.
- **Tutor for O/L and A/L ICT students** (June 2024 - present)- Mentoring and tutoring Ordinary Level (O/L) and Advanced Level (A/L) students in ICT, designing simplified lesson structures for complex algorithmic and logical concepts.
- **Member** – FOSS Community, NSBM Green University