

# KAVIDU HASARANGA

Software Engineering Undergraduate | Full Stack Developer | AI & ML Enthusiast

Kalutara, Sri Lanka | +94 787 021 394 | [hkkrrhasaranga@gmail.com](mailto:hkkrrhasaranga@gmail.com) | [GitHub](#) | [LinkedIn](#) | [Portfolio](#)

## OBJECTIVE

Motivated Software Engineering undergraduate passionate about building innovative software solutions and continuously expanding technical expertise through hands on projects. Experienced in full-stack development and mobile application development with strong problem solving, teamwork, and communication skills. Seeking a Software Engineering Internship to gain industry experience and contribute to impactful technology solutions.

## EDUCATION

### BSc (Hons) in Software Engineering

NSBM Green University, Sri Lanka

Expected Graduation: 2027

### G.C.E. Advanced Level Examination (Physical Science Stream)

Ananda Sastralaya National School, Matugama

2021

## TECHNICAL SKILLS

- Programming Languages:** Java, Python, JavaScript, TypeScript, PHP, Dart
- Frontend Development:** HTML5, CSS3, React.js, Tailwind CSS, Bootstrap, JavaScript
- Backend Development:** Java Servlets, Node.js, Express.js, REST APIs, PHP
- Mobile Application Development:** Flutter, Dart, Android studio
- Databases:** MySQL, PostgreSQL, SQLite, MongoDB
- DevOps & Deployment:** CI/CD pipelines, basic deployment practices
- Tools & Platforms:** Git, GitHub, VS Code, IntelliJ IDEA, Postman, Maven, Figma
- Core Concepts:** OOP, MVC Architecture, Data Structures & Algorithms, SDLC, DBMS, Agile methodologies

## PROJECTS

### 1. Go4 - AI Powered Multimodal Retail Guide - [GitHub](#)

**Technologies:** Flutter, Dart, Node.js, Express.js, Google Gemini 1.5 Flash, OpenAI Whisper / Groq Whisper, Serper.dev API, Riverpod, Camera Controller API

- Engineered a multimodal search system enabling image, voice, and text-based product discovery using Flutter frontend and Node.js backend
- Integrated Google Gemini AI for image understanding, OpenAI Whisper for speech-to-text transcription, and Serper API for real-time shopping search results
- Architected a unified search pipeline (Home screen → Search route → AI services) ensuring seamless communication between frontend and backend systems (*Group Project – 3rd Year*)

### 2. RiderWatch - Riders Net Profit Watch App - [GitHub](#)

**Technologies:** Flutter, Node.js, Express.js, SQLite

- Built a rider profit tracking application for managing trips, earnings, and expenses.
- Developed analytics dashboards and secure JWT-based authentication to enhance data security and user experience.

- Deployed backend services on Ubuntu VPS using Nginx and PM2. (*Individual Project*)
3. **Billing & Invoice Management Systems** - [GitHub](#) , [GitHub](#)  
**Technologies:** React, Node.js, Express.js, PostgreSQL, Prisma ORM, Tailwind CSS
- Created full-stack billing and invoice management solutions for optical and printing businesses.
  - Executed invoice generation, payment tracking, customer management, and business reporting functionalities.
  - Integrated JWT-based authentication, role-based access control (RBAC), and responsive user interfaces while deploying applications on Ubuntu VPS using Nginx and PM2. (*Client Projects*)
4. **Student Management System** - [GitHub](#)  
**Technologies:** Java Servlets, JSP, MySQL, Bootstrap  
Built a Student Management System using Java Servlets, JSP, and MySQL following MVC architecture. Implemented student records management, attendance tracking, authentication, and an admin dashboard for efficient data handling. (*Group Project – 2nd Year*)
5. **Gemstone E-Commerce Website + Admin Dashboard** - [GitHub](#) , [GitHub](#)  
**Technologies:** PHP, MySQL, HTML, CSS, JavaScript, Bootstrap  
Created a full-stack gemstone e-commerce platform with product catalog management, shopping cart, secure user authentication, checkout functionality, and an admin dashboard. (*Group Project – 1st Year*)

## CERTIFICATIONS

---

- **EF SET English Certificate** (B1 Intermediate) (May 2025)
- **Python for Beginners** - University of Moratuwa (Aug 2022)
- **Web Design for Beginners** - University of Moratuwa (May 2022)

## EXTRA CURRICULAR ACTIVITIES

---

- **Head Prefect**, Ananda Sastralaya National School, Matugama (2018 - 2019)
- **Organizing Committee Member**, “*Haritha Sahurdha Yathra 2025*” Program, Students Wellbeing Association, NSBM Green University
- **Member** – FOSS Community, NSBM Green University

## SOFT SKILLS

---

- **Problem-Solving:** Contributed to full-stack development projects by debugging issues and implementing real time features like search and tracking systems
- **Teamwork & Collaboration:** Worked as part of university development teams including AI-powered retail and logistics projects
- **Adaptability:** Quickly learned and worked with multiple technologies including Flutter, Node.js, AI APIs, and cloud services
- **Time Management:** Managed academic responsibilities alongside project deadlines and extracurricular commitments effectively

## REFERENCES

---

### Dr. Rasika Ranaweera

Dean & Senior Lecturer, Faculty of Computing  
NSBM Green University  
Email: [ranaweera.r@nsbm.ac.lk](mailto:ranaweera.r@nsbm.ac.lk)  
Contact No: +94 76 668 4965

### Ms. Pavithra Subhashini

Senior Lecturer, Faculty of Computing  
NSBM Green University  
Email: [pavithras@nsbm.ac.lk](mailto:pavithras@nsbm.ac.lk)  
Contact No: +94 77 618 1390