

KAVISHKA DESHAN

SOFTWARE ENGINEERING UNDERGRADUATE

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Summary

Software Engineering undergraduate at the National Institute of Business Management (NIBM), looking for a software engineering internship where I can work on real products and learn from an experienced team. I build mobile and web applications end to end, from database design and API integration through to the user interface, and I have practical experience with Firebase, Supabase, REST APIs, testing, and Git-based teamwork. My final-year project, Navora, is a cross-platform travel application for Sri Lanka built with Flutter, Firebase, Supabase, live routing data, and Gemini.

Technical Skills

Programming Languages

Java, Python, C, C++, C#, JavaScript, Dart, Kotlin, SQL

Backend & APIs

REST APIs, API Integration, Node.js, TypeScript, Firebase Cloud Services

Databases

Cloud Firestore, Firebase Realtime Database, PostgreSQL, MySQL, SQLite

IoT & Embedded

Arduino, ESP32, Embedded C/C++, RFID, Sensor Integration, I2C/SPI

Soft Skills

Analytical Thinking, Adaptability, Fast Learning, Project Management

Frontend & UI

React, Next.js, Flutter, Jetpack Compose, HTML5, CSS3, Tailwind CSS, Bootstrap

Cloud & Platforms

Firebase, Supabase, Google Maps, Google Places, GitHub Pages, GitHub Actions

Mobile Development

Flutter, Android, Kotlin, Jetpack Compose, Google Maps, CameraX, Room

Tools & Development

Git, GitHub, VS Code, IntelliJ IDEA, Visual Studio, Arduino IDE, Testing, UI Development

Core Concepts

Object-Oriented Programming (OOP), Data Structures & Algorithms, RESTful API Design

Projects & Experience

Navora — Intelligent Travel Guide to Sri Lanka [GitHub](#)

HND Final Project

Flutter, Dart, Firebase, Supabase, Gemini

- Built a **cross-platform travel application** that plans trips across Sri Lanka from **real routing and place data**, so each itinerary follows an actual travel route instead of an unordered list of locations.
- Integrated **Gemini** through **Firebase AI Logic** to generate narration and travel context for the places along a planned route.
- Implemented **maps**, saved trip storage, **offline caching**, and **AR-style navigation** so the app stays usable while travelling with weak network coverage.
- Added community features including **trip sharing**, **encrypted chat**, and **blockchain-verified reviews** to keep shared feedback trustworthy.

Fixora — Device Repair & Service Management App [GitHub](#)

Group Project

Kotlin, Android, Jetpack Compose, Firebase, Supabase, Room

- Developed a **role-based Android application** serving four user types: customers, technicians, branch managers, and administrators.

- Implemented the full repair lifecycle, covering **booking a device in**, assigning it to a technician, **tracking repair progress**, and closing the job.
- Added **inventory management** for parts and **role-aware navigation**, so each user only reaches the screens and actions their role allows.
- Used **Cloud Firestore** for real-time status updates and **Room** for offline-ready local data, keeping the app usable when the connection drops.

Smart Mining Helmet — IoT Safety Monitoring [GitHub](#)

Group Project

ESP32, Arduino C++, React, TypeScript, Firebase

- Contributed to an **IoT worker-safety platform** built on **ESP32** firmware written in **Arduino C++**, reading environmental and motion sensors mounted on a helmet unit.
- Implemented **RFID zone tracking** so the system records which section of the site a worker is in at any given time.
- Streamed telemetry into **Firebase Realtime Database** and built a live **React and TypeScript dashboard** for supervisors to monitor workers.
- Added **SOS alerting** and **incident logging**, so an emergency raises an immediate alert and remains in the history for later review.

Aarya Tea — Brand & Product Website [GitHub](#)

Personal Project

Next.js, React, TypeScript, Tailwind CSS, GSAP

- Designed and developed a **bilingual product-marketing website** for a tea brand using the **Next.js App Router** with React and TypeScript.
- Built responsive, **theme-aware layouts** in **Tailwind CSS** and added **scroll-linked animation** with **GSAP** to walk visitors through the product range.
- Published the site as a **static build on GitHub Pages**, with **GitHub Actions** running the build and release automatically on every push.

SafeClean — Secure Windows Disk Cleaner [GitHub](#)

Personal Project

Python, Tkinter, unittest

- Built a **Windows desktop utility** that finds removable system, browser, and developer cache data while protecting credentials and personal files from deletion.
- Designed layered **allowlist and denylist protection** with **path validation**, so the cleaner can never reach a directory it was not approved for.
- Added a **dry-run preview**, administrator elevation, **audit logging**, and automated safety tests written with **unittest**.

Library Management System [GitHub](#)

Academic Project

Java, Swing, JDBC, MySQL, JasperReports

- Developed a **desktop library-management application** for cataloguing books, managing student records, and handling book issues and returns.
- Implemented **database-backed authentication**, book search, **stock tracking**, and due-date monitoring on top of a **MySQL** schema.
- Structured data access with **JDBC and the DAO pattern**, and generated printable **PDF reports** using **JasperReports**.

Education & Training

Higher National Diploma in Software Engineering (HND)

Currently Following

National Institute of Business Management (NIBM), Sri Lanka

Relevant coursework: Software Engineering, Object-Oriented Programming, Database Management Systems, Computer Networks & Security, Data Structures & Algorithms, Machine Learning, Deep Learning, Artificial Intelligence.

- **Expected Graduation:** 2028

Language Skills

Sinhala — Native language

English — Working proficiency