

# Harsha Fernando

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Portfolio: harshafernando.com | GitHub: github.com/Harsha-Fernando | LinkedIn: linkedin.com/in/harsha-deshappriya/

## SUMMARY

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Software Engineering undergraduate pursuing dual degrees in Business Information Systems and Information Technology. Passionate about designing scalable software systems that solve real-world problems using Java, Spring Boot, Flutter, PostgreSQL, cloud platforms (Azure), and AI-assisted tools like GitHub Copilot. Experienced in full-stack development, requirements analysis, REST API design, object-oriented programming (OOP), and translating user needs into robust technical architectures within Agile team environments.

## EDUCATION

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**University of Sri Jayewardenepura:** BSc (Hons) Business Information Systems | Expected Graduation: July 2028

**University of Moratuwa:** Bachelor of Information Technology (BIT) | Expected Graduation: July 2028

## TECHNICAL SKILLS

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- **Languages:** Java, Python, Dart, TypeScript, JavaScript, SQL, Go
- **Backend & APIs:** Spring Boot, FastAPI, REST API Design, JWT Authentication
- **Frontend & Web:** Flutter, Next.js, React, Interface Design
- **Databases:** PostgreSQL, MySQL, Supabase, NoSQL Fundamentals (MongoDB)
- **Cloud & DevOps:** Microsoft Azure, Docker, Nginx, GitHub Actions, Git Version Control, Linux (Ubuntu)
- **Concepts & Methodologies:** Object-Oriented Programming (OOP), Data Structures & Algorithms, Agile/Scrum/Kanban, Requirements Analysis, SOLID
- **AI Integration & Tools:** OpenAI API, InsightFace, GitHub Copilot, Cursor, Claude Code, Windsurf

## PROJECTS

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**UniConnect — Enterprise University Mentoring Platform** | Live Demo: [uniconnectusj.xyz](http://uniconnectusj.xyz)

- Led requirements analysis in a collaborative team environment using Kanban boards, engaging with stakeholders to formulate comprehensive Software Requirements Specification (SRS) documents and system technical designs.
- Architected and deployed 128 scalable REST API endpoints across 36 controllers using Java and Spring Boot, applying strict OOP principles to ensure maintainable program logic.
- Designed 42 PostgreSQL database tables to handle robust data flow between students, academic mentors, and Heads of Department.
- Developed a responsive web administration dashboard and cross-platform Android application in Flutter, implementing clean, modern UI/UX interface designs.
- Engineered a FastAPI microservice to integrate InsightFace AI face recognition, automating secure authentication via JWT and role-based authorization.
- Deployed the full-stack system to Microsoft Azure with an Nginx reverse proxy to optimize application performance.

**UniApi.lk — University Degree Finder Platform** | Live Demo: [www.uniapi.lk](http://www.uniapi.lk)

- Developed an intelligent discovery platform utilizing advanced search logic and GPA calculations to help Sri Lankan students identify suitable degree programs.
- Integrated AI-assisted recommendations to improve the functionality and process flow of the application.

**QuizDona — AI-Powered Quiz Practice Platform** | Live Demo: [quizdona.vercel.app](http://quizdona.vercel.app)

- Designed and built an AI-assisted quiz platform that dynamically converts JSON question sets generated by Large Language Models into interactive, timed examinations.
- Implemented automated scoring, shareable quiz URLs, and LLM prompt templates to streamline user workflows.

#### **Travela — AI Travel Planner** | Live Demo: [travala-app-gules.vercel.app](https://travala-app-gules.vercel.app)

- Developed an AI-powered application that leverages Large Language Models to generate highly personalized travel itineraries, simplifying complex trip planning for end-users.

#### **SkyDona — QR-Based File Sharing Platform**

- Engineered a lightweight, frictionless file-sharing backend using Go and QR Code technology to transfer files between macOS and Android devices instantly.
- Eliminated user reliance on cloud storage or messaging apps by designing an optimized process flow for direct, peer-to-peer file processing.

#### **D-Hack Official Website** | Live Demo: [dhackdemo.vercel.app](https://dhackdemo.vercel.app)

- Designed, developed, and deployed the official web platform for the D-Hack competition, establishing a scalable architecture that continues to be maintained and updated by subsequent organizing committees.

#### **Additional Projects:**

- Sapthaka Competition Website ([sapthaka.vercel.app](https://sapthaka.vercel.app)) | Enliven 2025 Official Website ([enliven-25.vercel.app](https://enliven-25.vercel.app))
- Sleep Better Calculator ([sleep-better.vercel.app](https://sleep-better.vercel.app)) | OneID: Digital Government Service Platform
- Pharmacy & ATM Finder: Integrated with Google Maps API

### **LEADERSHIP & ACTIVITIES**

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- **Logistics Manager, Cyber Summit 2026** — Coordinated operational activities and logistical planning for one of the university's flagship cybersecurity events.
- **Marketing & Media Crew, D-Hack** — Spearheaded the UI/UX design and technical deployment of the official competition platform.
- **Finance Team, ISACA Student Chapter** — Assisted the University of Sri Jayewardenepura chapter in organizing workshops, competitions, and student engagement initiatives.

### **AWARDS & CERTIFICATIONS**

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- Second Runner-up: CryptX 2.0 Inter-University Designathon | Member of the Month: ISACA Student Chapter
- Linux Professional Institute (LPI) Linux Essentials (Expected 2026)
- CompTIA Security+ (Expected 2026)
- Microsoft Certified: SC-900 (Expected 2026)