# Kushan Sankalpa

📞 +94 76 580 7548  —  ✉ kushansankalpa717@gmail.com  —  in linkedin.com/in/kushan-sankalpa/  —  ○ github.com/Kushan-Sankalpa

💼 Personal Portfolio  —  📍 No 20/1, Templer Road, De Zoysa Place, Mount Lavinia, Sri Lanka

## About me

I am a proactive Software Engineering undergraduate with a robust foundation in full-stack development and object-oriented programming. With hands-on experience in designing scalable and efficient software solutions, I excel in analytical thinking and problem solving. I thrive in collaborative environments and am dedicated to continuous learning, ready to leverage my technical expertise and innovative mindset to contribute to impactful technology projects.

## Skills

| | |
|---:|---|
| **Technical Skills:** | Object-Oriented Programming, Full-Stack Web Development, Database Management, API Design & Integration |
| **Programming Languages:** | Java, Python, Html, Css, JavaScript, PHP, SQL, MySQL |
| **Frameworks** | Spring Boot, Node.js, React, Angular, Flutter |
| **Tools:** | IntelliJ IDEA, VS Code, Figma, Git, Github, Postman, Word, Excel, PowerPoint, Click-up |
| **Communication Skills:** | English (*Professional Proficiency*), Sinhala (*Native Proficiency*) |

## Education

**UNIVERSITY OF WESTMINSTER**                                          **2024 - Present**
*Undergraduate BEng (Hons) Software Engineering*

**First Year Modules**
- Trends in Computer Science (76)
- Computer Systems Fundamentals (91)
- Software Development I - Python (82)
- Web Design and Development (86)
- Mathematics for Computing (81)
- Software Development II - java (83)

**Second Year Modules (Grades: Pending)**
- Object Oriented Programming (78.5)
- Database Systems (85.5)
- Software Development Group Project
- Server-Side Web Development
- Algorithms: Theory, Design and Implementation
- Software Engineering Principles and Practice (76)

**INFORMATICS INSTITUTE OF TECHNOLOGY**                                **May 2023 – Dec 2023**
*Foundation Certificate in Higher Education (Distinction)*

**Sri Bodhiraja College, Embilipitiya**                                **2008 – 2019**

## Projects

**Group Project | Wali Pilla Sinhala Learning App (Flutter | Node.js | MongoDB | Firebase)** ↗                **March 2025**
- Developed a gamified app for Sinhala learning, designed for children (upper preschool to Grade 5) including the diaspora.
- Offered interactive exercises to improve grammar, spelling, writing, and pronunciation.
- Built with **Flutter** to deliver intuitive lessons and engaging vocabulary drills.
- Leveraged a robust backend using **Node.js** and **MongoDB** with **Firebase** for real-time analytics and secure authentication.
- Combined modern technology with innovative teaching strategies to enhance language proficiency.

**Task Hut: Task Manager Application (Angular | Spring Boot | MySQL)** ↗                **Apr 2025**
- Developed a full-stack task management application using **Angular** for the frontend and **Spring Boot** for the backend.
- Implemented secure user registration and login with **JWT authentication** for robust session management, alongside full CRUD operations on tasks.
- Integrated **MySQL** for data persistence and designed a responsive, modern UI.
- Designed a dashboard that groups tasks by status (To Do, In Progress, Done) and offers detailed task views.

**Personal AI Chatbot (Python textbar OpenAI's gpt-3.5-turbo API | Gradio)** ⬈        **March 2025**
- Developed a real-time conversational agent using **Python**, **OpenAI's gpt-3.5-turbo**, and **Gradio**.
- Maintains a dynamic conversation history to generate context-aware responses using OpenAI's ChatCompletion API.
- Integrated a web interface with **Gradio** for seamless, interactive user experience.
- Implemented robust error handling to manage API call issues, demonstrating proficiency in API integration and NLP.

**Auto Corrector-AI (Python | T5 Model | Gradio)** ⬈        **March 2025**
- Developed an AI-powered text correction tool using a pre-trained **T5 model** for grammar and spelling corrections.
- Built an interactive web interface with **Gradio** to enable users to input text and view corrected output in real-time.
- Integrated **Hugging Face Transformers** to leverage state-of-the-art natural language processing capabilities.

**Ticket Management System (React | Spring Boot | H2 Database)** ⬈        **Dec 2024**
- Developed a **real-time event ticketing system** utilizing a multithreaded producer-consumer pattern for dynamic ticket allocation and retrieval.
- Implemented a responsive frontend with **React** and a robust **Spring Boot** backend integrated with **H2 Database** for efficient, lightweight data management.
- Ensured effective synchronization, configuration persistence, and scalability to support high-volume ticket transactions.

**Other projects**
- *Walipilla Markerting Webpage* ⬈        *Feb 2025*
- *Student Management System :* ⬈        *May 2024*
- *Multi Functional Calculator* ⬈        *Dec 2023*

## Certifications

- *Generative AI in Learning and Development*        *Certificate:* ⬈ *Feb 2024*
- *Python for Beginners (University of Moratuwa)*        *Certificate:* ⬈ *Feb 2024*
- *Java Object-Oriented Programming*        *Certificate:* ⬈ *Nov 2024*
- *Learning Spring with Spring Boot*        *Certificate:* ⬈ *Nov 2024*
- *Angular Essential Training*        *Certificate:* ⬈ *Nov 2024*
- *React.js Essential Training*        *Certificate:* ⬈ *Nov 2024*

## Achievements

- *Ranked **10th in Sri Lanka** and **170th globally** in the **IEEEXtreme 18.0 Competition***        *2024*
- *Reached the finals (Top 20) in **Benchmark 3.0** organized by **AIESEC in SLIIT** as part of **Goose 4.0***        *2024*
- *Participated in the **international hackathon** organized by the University of Westminster*        *2024*
- *Participated in **Haxpedition: Mini Hackathon** organized by the **IEEE student branch of IIT***        *2024*

## Extra-curriculars

**Informatics Institute of Technology**
- *Member of the IEEE Community at IIT*        *2024 - Present*

**Sri Bodhiraja College**
- *prefect*        *2017*
- *Member of Maths and Science Society*        *2017*

## References

**Mr. N G Chandana Srilal**
Senior Software Engineer
NCS Pte. Ltd. (ncs.com.sg)
5 Ang Mo Kio Street 62, NCS Hub, Singapore 569141
Email: chandanan.niralgama@gmail.com

**Mr. G.A. Pubudu Janith**
Assistant Lecturer
Email: pubudu.a@iit.ac.lk
Contact Number: +94 77 127 4857