Nisith Dharmawardane

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OBJECTIVE

As a Computer Science student, I am actively pursuing an internship to bridge the gap between theoretical knowledge and real world application. I am enthusiastic about contributing to dynamic teams, bringing creative solutions to the table, and learning from professionals in the field. With a strong foundation in problem solving and a drive for continuous improvement, I aim to make meaningful contributions while further developing my technical expertise.

NOTABLE PROJECTS

VocalLabs - Speech Recognition and Evaluation Software   Jan 2025 - Mar 2025

- Collaborated with a team of six members to develop a Flutter-based mobile application with a Flask backend, integrating Machine Learning models.
- Focused on analyzing speech to provide AI-driven feedback for public speaking improvement, evaluating elements like pause detection, grammar, pitch, and volume.
- Currently under development.
  Key Contributions:
  - Designed and integrated ML models to analyze speech dynamics
  - Developed the backend with Flask and integrated speech analysis algorithms
  - Implemented real-time feedback features for unbiased public speaking practice

LiveEventX - Real-Time Ticket Management System   Nov 2024 - Dec 2024

- Developed a web-based ticket management system using Angular for the frontend and Spring Boot for the backend.
- Features include real-time ticket sales updates, customizable system settings, activity logs, and responsive UI with real-time data visualization using ngx-charts.
  Key Contributions:
  - Implemented real-time ticket sales tracking and data visualization
  - Developed the backend logic for ticket system configuration and management
  - Designed the responsive frontend with Angular for smooth user experience

BattleOps - Defense System Simulation   Dec 2024

- Developed a Java-based defense simulation system using Swing for GUI with an Observer pattern to manage various units like Helicopters, Tanks, and Submarines.
- Designed a MainController for centralized control and real-time strength calculation of the defense units.
  Key Contributions:
  - Designed and implemented the Observer pattern for unit coordination
  - Developed a central control system for real-time defense unit management
  - Created a user-friendly Swing-based GUI for simulation visualization

Healuxe - Health Store Web Platform   Apr 2024

- Created a fully functional website for a health store in collaboration with a team of 4 members.
- Features include a product gallery, online store, user profiles, feedback, and a payment gateway.
  Key Contributions:
  - Developed the frontend user interface for a smooth shopping experience
  - Integrated basic demo payment gateway functionality for online transactions
  - Implemented user profile management and feedback collection systems

Shopimo - Fashion Retail Management System   Apr 2024 - May 2024

- Developed a Java-based application for managing orders, customers, and reports in a fashion retail business.
- Applied OOP principles such as encapsulation, inheritance, and polymorphism to build features like order placement, order status updates, and report generation.
  Key Contributions:
  - Developed core functionalities for order placement, customer management, and reporting
  - Implemented system features to track and update order status
  - Created search functionality for customers and orders

EduProgress - Student Progress Predictor   Dec 2023

- Developed a Python application for predicting student progress based on credit input.
- Integrated Tkinter to visualize progress in a histogram and enabled saving and retrieving results.
  Key Contributions:
  - Designed the prediction algorithm for student progress
  - Developed the Tkinter-based interface for result visualization
  - Implemented data saving and retrieval functionality

[SkySeat](#) - **Plane Seating and Ticketing Management System**   **Mar 2024**

- Created a Java-based application for managing plane seating arrangements, ticket purchases, and cancellations.
- Key functionalities include seat availability search, seating plan display, and ticket information retrieval.
  Key Contributions:
  - Developed seat availability search and seating plan display
  - Implemented ticket purchase and cancellation features
  - Designed the backend for seat assignment and ticket management

[TicketVerse](#) - **Live Event Ticketing System**   **Nov 2024**

- Developed a multithreaded Java ticketing system with thread safety using ReentrantLock and Condition.
- Implemented configuration saving, loading, and concurrent ticket vending and purchasing.
  Key Contributions:
  - Implemented thread-safe ticket management features using locks and conditions
  - Developed backend configuration and system settings saving
  - Designed a multithreaded system to simulate ticket vending and purchasing

EXTRACURRICULAR ACTIVITIES & ACHIEVEMENTS

- **Member of Rotaract Club - RACIIT**   **2023-Present**
- **Volunteer at Cutting Edge - IIT**   **Jul 2022**
- **Senior Member, Maths Society at Royal College, Colombo 07**   **2019-2022**
- **Red Cross Society at Royal College, Colombo 07**   **2019-2022**
  - Organized blood donation campaigns for local hospitals.
  - Raised awareness and encouraged student and faculty participation.
- **Computer Society at Royal College, Colombo 07**   **2019-2022**
  - Enhanced the school's official website, improving design, functionality, and user experience.
  - Streamlined communication, creating a dynamic and accessible platform for students and faculty.
- **Olympiad Math Participant**   **Aug 2018**
- **Taekwondo**   **2016-2019**

QUALIFICATIONS

- **IIT 2nd year average - 84.11%** (Machine Learning, Algorithms Theory Design and Implementation, Software Development Group Project marks are pending)
- **G.C.E Advanced Level 2022 (Physical Stream)** - ‣ Combined Maths B ‣ Chemistry B ‣ Physics C
- **G.C.E Ordinary Level 2019**   -   9A s
- **ICM - ICET Certified Master Program - Institute of Computer Engineering Technology (ICET), Sri Lanka**

TECHNICAL SKILLS

- **Programming:** Python, Java, JavaFX, JavaScript | **Database:** MySQL, SQLite
- **Source Code/Project Management:** GitHub | **Backend Frameworks:** Spring Boot, Flask
- **Frontend Frameworks:** React, Angular | **IDEs:** IntelliJ, VS Code, Geany, PyCharm, NetBeans

EDUCATION

- **BSc (Hons) Computer Science**   **2023 - Present**
  IIT, Sri Lanka (Affiliated with the University of Westminster), Expected Graduation: 2027
- **Royal College Colombo 07 -** G.C.E A/L   **2019-2023**
- **ST. Peter's College Colombo 04 -** G.C.E O/L   **2012-2019**

REFEREES

- References can be provided upon request.