

VINURA OMETH WELIHINDA

COMPUTER SCIENCE UNDERGRADUATE (IIT)

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PROFILE

I am a 2nd year Computer Science undergraduate at IIT, affiliated with the University of Westminster, passionate about AI/ML, problem-solving, and software development. Actively involved in IEEE, IEEE CS, and IEEE Computational Intelligence Society, always eager to learn, innovate, and explore emerging technologies.

TECHNICAL PROJECTS

InterviewSuite - AI Powered Mock Interview Platform (SDGP)

Developing an AI-driven mock interview platform using **React, Flask, PostgreSQL, and OpenAI GPT-4o Mini**. It dynamically generates questions, delivers them via **Text-to-Speech (TTS)**, and evaluates responses with **Speech-to-Text (STT)** and computer vision (**OpenCV, MediaPipe**) for confidence scoring. Provides real-time AI-driven feedback on technical accuracy and communication skill.

Smart Research Assistant

Developing a browser extension with **HTML, CSS, and JavaScript**, integrating the Google **Gemini API via a Spring Boot (Java) backend**. Enables AI-powered research assistance directly from any webpage. Demonstrates full-stack development, API integration, and AI application skills.

Personal Portfolio Website

Built a modern portfolio website using React, Vite, and TypeScript to showcase projects, skills, and experience. Designed a clean, responsive UI with smooth navigation and animations. Leveraged AI tools to streamline development, optimizing efficiency without compromising quality. Integrated a project gallery, downloadable resume, and contact section. Deployed on Vercel for fast performance and accessibility.

Plane Seat Reservation System

Developed a Java-based airline seat reservation system with an interactive CLI for booking, canceling, and tracking seats. Applied **OOP principles** using **Person** and **Ticket** classes to manage passenger details and reservations efficiently. Implemented file handling for data persistence, ensuring seat availability is tracked across sessions. Designed a structured menu system with **input validation** and **error handling** to enhance user experience. Currently exploring **database integration** and **GUI development** to expand functionality and improve scalability.

Real Estate Agency Website

Developed a responsive real estate platform using **ReactJS**, featuring property listings with images, descriptions, and pricing. Implemented search and filtering options (location, price range, property type) and integrated **Google Maps** for location visualization. Demonstrates **frontend development**, **UI/UX design**, and **API integration** skills.

EDUCATION

Bsc. (Hons.) in Computer Science , IIT

Sep 2023 - Sep 2027

- Software Development I
- Computer Systems Fundamentals
- Mathematics For Computing
- Software Development II
- Trends in Computer Science
- Web Development
- Object Oriented Programming
- Software Development Group Project (SDGP)
- Advanced Client Side Development
- Database Systems
- Algorithms : Theory, Design and Implementation
- Client Server Architecture

Lyceum International School - Panadura

Aug 2007- Aug 2020

- G.C.E. Advanced Level (Physical Science) - 2020
- G.C.E Ordinary Level - 2017

SKILLS

- Java | Springboot
- SQL
- Git | Github
- HTML | CSS | JS
- React
- Python | Flask
- Postman
- Docker

CERTIFICATIONS AND COMPETITIONS

- **IEEE Xtreme 17.0 (University Rank = 68 , Country Rank = 262)**
- Postman API Fundamentals Student Expert
- Preparing for Microsoft Azure Fundamentals (AZ-900)
- Registered for the Hult Prize competition (InterviewSuite)
- Preparing for the Github Foundations Examination

NON RELATED REFREES

- Mr.Mayura Wasantha,
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