

ISHAN MALINHA

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PROFILE INFO

Highly motivated computer science student at University of westminster(IIT) with strong foundation in Programming languages, System design , Software development and Problem solving skills. I'm passionate about Machine learning , Algorithms, creating efficient user-friendly software solutions with committed to continuous learning through real-world projects and independent exploration. Currently seeking an internship opportunity to strengthen my technical expertise, collaborate with industry professionals and contribute value to a forward-thinking tech organisation.

EDUCATION

Bsc (Hons) Computer Science | University of Westminster (IIT Sri Lanka)

- Since 2024

Modules (2 year) :

- Object Oriented Programming
- Client - Server Architectures
- Database Systems
- Software Development Group Project
- Algorithms & Data structures
- Machine learning & Data mining

Modules (1 year) :

- Mathematics for Computing
- Software Development (Python)
- Computer Systems Fundamentals
- Software Development II (Java)
- Trends in Computer Science
- Web Design and Development

- Passed Advanced Level(A/L) in Physical Science (Anamaduwa National College)

-Since 2023

Chemistry - B
Com. Maths - C
Physics - C

- Passed Ordinary Level(O/L) (Anamaduwa National College)

-Since 2020

SKILLS

Technical Skills

- Front-end & Core : HTML, Tailwind CSS, JavaScript , React.js , Election.js , Type-Script , JavaFx
- Back-end & DataBase : Java, Python, Node.js, Express.js, Rest API , MySQL , MongoDB , PostgreSQL
- Tools & Design: Git & Github actions , Draw.io, Figma , Notion , Click-up , AWS , ORMs

Soft Skills

- Time Management
- Critical Thinking
- Problem Solving
- Analysis Skills

EXPERIENCE (PROJECTS)

REQRUITA - Advanced interview monitoring platform

Academic project - SDGP (2025-present)

- Architected a cross-platform desktop application for Interviews using Electron and React with Vite, implementing an IPC (Inter-Process Communication) bridge to securely connect the system-level shell with the UI renderer.
- Developed a high-performance Landing Page and Admin Dashboard using Next.js, TypeScript and Tailwind CSS focusing on a responsive, clean architectural structure for managing large-scale interview data.
- Engineered a scalable Backend utilizing Node.js and Express.js, integrated with Next.js API routes to handle complex business logic and interview scheduling.
- Implemented Secure Authentication using JSON Web Tokens (JWT) to manage session-based access control across different user roles (Admin, Interviewer, Interviewee).
- Designed a Dual-Database Strategy using SQLite for lightweight, local desktop data persistence and MongoDB for centralized, cloud-based storage of interview recordings and analytics.
- Engineered a Secure Interview Lockdown System that enforces mandatory full-screen mode and utilizes Electron's window-level event listeners to detect and block application switching.
- Developed a real-time monitoring engine using WebRTC APIs to facilitate simultaneous, low-latency streams for camera, microphone and screen-sharing validation.

Trade-Flow: Smart Trading Assistant Platform

Individual project (2025 - present)

- Architected a comprehensive Trading Journal and Analytics Dashboard using React and Vite, featuring real-time equity charts, performance heatmaps and a modular "Evaluation Panel" for quantitative strategy analysis.
- Developed a Multi-Module Learning Management System (LMS) with a structured "Academy" and "Foundations" section, utilizing a centralized data architecture to manage curriculum across Technical Analysis, Risk Management, and Psychology.
- Engineered a Secure Backend Infrastructure with Node.js and Express.js, implementing a clean controller-service-route pattern to handle complex operations for trade journaling and user management.
- Implemented a Secure Payment Processing System by creating dedicated API routes to handle financial transactions, ensuring seamless integration between the user's subscription status and premium platform features.
- Designed a Scalable Database Schema using SQLite (via better-sqlite3), optimizing data persistence for high-frequency trade entries, user progress tracking in the Academy, and secure authentication logs.
- Developed a Robust Authentication System using JSON Web Tokens (JWT) and bcrypt for password hashing, protected by custom middleware to enforce secure access to the Journal and Academy dashboards.
- Integrated Interactive Data Visualization using Recharts to transform raw trading data into actionable insights, including profit calendars, statistics cards and multi-axis performance graphs.

REFERENCE

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