

DILINA CHATHURAKA PERERA

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🔗 Dilina Perera

Personal Statement

Second-year Computer Science undergraduate at IIT (affiliated with the University of Westminster) with hands-on experience in full-stack development, RESTful APIs, and applied machine learning. Built and deployed several projects including a real-time ticketing system using React and Spring Boot, and an AI-powered healthcare platform (CuraSync) with role-specific dashboards, authentication, and real-time messaging. Skilled in designing responsive UIs, building secure backends, and optimizing data workflows. Seeking an internship where I can contribute to impactful software projects and deepen my practical experience in scalable system design.

Education

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|---|-----------------------------|
| University of Westminster | <i>Jan 2023 – Present</i> |
| ◦ BSc (Hons) Computer Science undergraduate | |
| Informatics Institute of Technology | <i>Jan 2022 – Sept 2022</i> |
| ◦ Successfully completed the Foundation Program | |
| Dharmaraja College | <i>Jan 2017 – Dec 2020</i> |
| ◦ Physical Science Stream | |

Experience

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|---|-------------|
| Freelance Designer and Data Entry | <i>2022</i> |
| Worked as a freelance logo designer and data entry specialist on platforms like Upwork and Fiverr. Successfully completed projects for clients, delivering highquality designs and accurate data entry services. Developed strong time management, client communication, and problem-solving skills while handling multiple projects efficiently. | |

Projects

CuraSync - Healthcare Management Platform

- Developed a responsive and intuitive Next.js-based frontend for patients, doctors, laboratories, and pharmacies, ensuring seamless user interactions across dashboards.
- Implemented role-specific UIs (e.g., patient timelines, lab report visualization, secure messaging) using Tailwind CSS and ShadCN UI for consistent, accessible designs.
- Integrated real-time communication via Socket.io for instant messaging between stakeholders, enhancing care coordination.
- Leveraged NextAuth.js for secure authentication and Axios for efficient API calls to the Node.js backend, ensuring data privacy and smooth workflows.
- Collaborated on the AI-driven lab report visualization microservice, enabling patients to interpret complex medical data through simplified summaries.

Petalpad – Note-Taking App with Authentication

- Built a full-stack note-taking application with a sleek and responsive UI using Next.js and Tailwind CSS.
- Implemented secure user authentication and authorization using Express.js, JWT, and MongoDB.
- Designed reusable UI components and ensured mobile responsiveness.
- Leveraged localStorage for quick UI interactions while persisting user notes in a database.

Loan Prediction Model - Scikit-learn, Pandas, Seaborn, NumPy

- Built a predictive model to determine loan approval outcomes based on applicant attributes (income, loan amount, credit history, etc.).

- Conducted data preprocessing: handled missing values, applied log transformations for skewed features, and performed feature encoding.
- Trained and evaluated models including Logistic Regression, Decision Trees, KNN, and Random Forest; achieved 78.6 percent accuracy with Random Forest.
- Employed cross-validation and classification metrics (precision, recall, F1-score) to assess model performance.
- Explored feature correlations and visualized distributions to guide feature selection and transformation.

Ticketing System - Full-Stack Simulation

- Built a full-stack ticketing system to simulate real-world producer-consumer interactions.
- Developed a React-based frontend for real-time ticket booking and viewing.
- Designed a robust Spring Boot backend with MySQL for efficient data storage and transaction management.
- Implemented RESTful APIs to enable seamless communication between frontend and backend.

Cinema Management System

- This Program is a Java application for managing cinema seat bookings, including ticket purchasing, cancellation, and searching. It also provides features to view seating plans and sort ticket information by price.

Professional Qualifications

- Java Masterclass: Expert Lessons - Udemy (2025)
- Complete Data Science, Machine Learning, Deep Learning, and NLP Bootcamp - Udemy (2025)
- The Web Developer Bootcamp - Udemy (2025)

Certifications

- Java Object-Oriented Programming (Coursera)
- Angular Essential Training
- Creating Spring Boot Microservices (LinkedIn Learning)

Extra-Curricular Activities

- **AIESEC Member** - Currently serving as a Team Leader at AIESEC in IIT for the 25.26 term, leading teams and coordinating impactful projects.
- **Chess and Swimming** - Competed in chess tournaments and participated in swimming events during school, developing strategic thinking, discipline, and resilience.
- **Astronomy and Science Club Member** - Actively engaged in scientific discussions, projects, and events, fostering curiosity and analytical skills.

References

Ms.Chathuri Udagedara

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Mr.Prashastha Mudannayake

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