

# 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

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

## Experience

<b>Freelance Designer and Data Entry</b>	<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 high-quality designs and accurate data entry services. Developed strong time management, client communication, and problem-solving skills while handling multiple projects efficiently.	

## Projects

<b>CuraSync - Healthcare Management Platform</b>	
◦ 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**

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- 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**

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- **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**

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### **Ms.Chathuri Udagedara**

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### **Mr.Prashastha Mudannayake**

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