

# Sanjula Nimesh

I'm a second-year Computer Science student with expertise in Python, Java, C, and web technologies such as React, Spring Boot, and Angular. I have a strong passion for software and web development, continually honing my skills through various projects. Additionally, I have experience in SEO content creation and social media management.

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## EDUCATION

### University of Westminster, UK (IIT, Sri Lanka)

BSc (Hons) Computer Science

2024 -Present

- Software Development I
- Software Development II
- Web Design and Development
- Trends in Computer Science
- Computer Systems Fundamentals
- Mathematics for Computing
- Object Oriented Programming
- Database Systems
- Software Development Group Project
- Algorithms: Theory, Design and implementation

### Ananda Sasthralaya

2013 - 2021

G. C. E. Ordinary Level Examination 2018- 9A Passes

G. C. E Advanced Level Examination 2021(2022)- Chemistry-B, Physics-C, Combined Maths-C

## PROJECTS

### Software Development Project: AI Powered Breast Cancer Detection Tool [🔗](#)

- OncoDetect is an AI-powered tool for breast cancer detection that enhances diagnostic imaging accuracy using advanced image processing and machine learning.
- It analyzes mammogram images to classify breast cancer into malignant, benign, or normal, promoting early detection and more effective treatment.
- AI-Powered Image Analysis: Automated mammogram classification using machine learning.
- Diagnostic Categorization: Differentiates between malignant, benign, and normal categories.
- User-Friendly Interface: Intuitive design for healthcare professionals.
- Training Module: Medical students can practice with sample datasets.
- Data Security: Ensures compliance with medical data protection standards.
- Frontend: ReactJS
- Backend: Python Flask
- AI/ML Frameworks: TensorFlow or PyTorch
- Containerization: Docker
- Security: JWT, HTTPS
- Dataset: CBIS-DDSM

### Real Time Event Ticketing System [🔗](#)

- Real-Time Ticket Operations: Enables real-time ticket purchasing and vendor management.
- Multi-Platform Integration: Built with Java, React, Node.js, and MongoDB for seamless backend-frontend interaction.
- Concurrency Handling: Uses multi-threading in Java to manage simultaneous ticket buying and selling.
- WebSocket Integration: Provides live updates for ticket availability and system logs.
- Scalable Architecture: MongoDB for efficient data storage and Node.js for handling multiple client requests.
- User-Friendly Interface: React-based UI for a smooth and interactive experience.

## Lets Grow Pre School Website

- Technologies: React, Node.js, MongoDB, JWT Authentication
- Description: Developed a fully functional website for a preschool that includes user authentication, data management, and secure access using JWT.
- Frontend: Built the frontend using React, focusing on a user-friendly interface, responsive design, and dynamic content management.
- Backend: Implemented a Node.js server with RESTful APIs, handling secure data transactions and integrating JWT for user authentication and role-based access control.

## Tour guide web

- Technologies: React, Node.js, MongoDB, Stripe (or other payment gateway), JWT Authentication
- Description: Developed a tour guide website offering booking and payment functionality, allowing users to browse tours, make bookings, and securely process payments.
- Payment Gateway: Implemented Stripe (or alternative payment system) for secure payment processing, handling transactions, and generating receipts for bookings.
- Additional Features: Included admin features for tour management, booking status updates, and user role management (tour guides, customers, admins).

## SKILLS

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- Full-Stack Development (Java, React, Node.js, MongoDB)
- Frontend Development (React, HTML, CSS, Tailwind CSS)
- Backend Development (Node.js, Python, Express.js, REST APIs)
- Concurrency & Multi-threading (Java)
- Real-Time Communication (WebSockets, Socket.IO)
- Database Management (MongoDB, Mongoose)
- Communication
- Problem-Solving
- Collaboration

## Curricular Activities

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### Hackathons & Coding Competition events

### Technical Workshops & Seminars

### Open Source Contributions

## Extra Curricular Activities

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### Cricket

- Captain Of Sri Lanka under-15 Team for Tour of India-2016
- Best School Cricketer(Kaluthara District)-2018
- Best Bowler-Ananda college 1st XI Cricket-2019
- Captain Of the Western province team-2020
- Best Emerging All rounder-2018,2019

### Volleyball

- Captain of the IIT volleyball team
- Best Attacker -(2018,2019,2020)
- Vice Captain of the Kaluthara district team-(2023,2024,2025)
- Best setter of the asian championship-2021

## References

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