# SASANKA GALLAGE

## Full-Stack Web Developer

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## About Me

Driven and detail-oriented computer science student with a strong foundation in full-stack development, problem-solving, and data analysis. Passionate about building scalable, user-friendly applications and leveraging technology to solve real-world problems. Quick learner with a proactive mindset, seeking opportunities to contribute to innovative projects and grow as a versatile software developer.

### Education

## BSc (Hons) in Computer Science

2024 - 2028

Informatics Institute of Technology

Learned core modules: Software Development, Web Design & Development, Trends in Computer Science, Computer System Fundamentals, Mathematics for Computing.

## GCE A/L's Physical Science Stream

2009-2022

Musaeus College

Obtained 3 C's for Combined Maths, Physics & Chemistry.

#### Certifications

- Microsoft AI 900 Fundamentals
- Postman API Student Fundamentals Jan 2025
- Python GUI Development with Tkinter Jan 2025
- Web Design for Beginners Nov 2024
- Python for Beginners Sep 2024

#### Technical Skills

Programming Languages: HTML, CSS, JavaScript, SQL, Python

Frameworks & Libraries: ReactJS, NextJS, Angular, Tailwind CSS, ExpressJS, NodeJS, JWT

Databases & Tools: PostgreSQL, MongoDB, Prisma, Autho, VS Code, PyCharm

# **Projects**

#### • Traffic Data Analysis System

Technologies & Tools: Python, Tkinter, PyCharm

Developed a program to analyze traffic flow data collected from local road junctions. Allowed users to select and analyze specific CSV datasets based on date. Summarized traffic flow data for council decision-making. Implemented features to save results as a text file and visualize data using a histogram.

## • Budget Tracker - Full-Stack Web Application 🗘

Technologies & Tools: React.js, Node.js, Express.js, MongoDB, Auth0, CSS3, JavaScript ES6+ Full-stack expense tracking and group budget management app with real-time expense updates, category-based tracking, and secure authentication via Auth0. Features include group-based expense sharing, interactive charts, and a responsive dark-themed UI. Backend built with Express.js and MongoDB for persistent storage, with JWT-based authentication and protected routes.

# • GainsLog (Ongoing Project) 🖸

Technologies & Tools: React, HTML, CSS, NodeJS, ExpressJS, Auth0, VS Code, MongoDB, HuggingFace API

GainsLog is a full-stack fitness tracking web application that helps users log workouts, track progress, and generate AI-powered workout plans tailored to their fitness level and experience. The app integrates Google authentication, MongoDB for data storage, and HuggingFace API to generate personalized workout plans.

## • Mini Job Board 😯

 $Technologies \ \&\ Tools:\ Next.js,\ React,\ JavaScript\ (JSX),\ Tailwind\ CSS,\ Node.js,\ Express.js,\ PostgreSQL,\ Prisma,\ JWT\ Authentication,\ Visual\ Studio\ Code$ 

Mini Job Board is a full-stack web application that allows users to browse and filter job listings, while administrators can securely log in, post new jobs, and manage postings through a dedicated dashboard. The app includes real-time form validation, responsive design, and secure authentication using JWT. PostgreSQL handles data persistence, and the interface is built with a clean, modern design using Tailwind CSS.

## Soft Skills

- Time Management
- Negotiation
- Critical Thinking
- Communication Skills
- Leadership

#### Extracurricular Activities

- MoraXtream 9.0 Certificate of Participation (Nov 2024)
- IEEE Xtream 18.0 Certificate of Participation (Oct 2024)

# Committees

• IEEE Student Branch of IIT — Sep 2024 to Present