

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.

Technical Skills

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

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

Databases & Tools: PostgreSQL, MongoDB, Prisma, Auth0, VS Code, PyCharm

Projects

- **GainsLog** 🌐

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 the user's fitness level and experience. The app integrates Google authentication, MongoDB for data storage, and HuggingFace API to generate personalized workout plans.

- **MoneyMate - Full-Stack Web Application (Ongoing Project)** 🌐

Technologies & Tools: React.js, Node.js, Express.js, MongoDB, Auth0, CSS, 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 and protected routes.

- **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.

- **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.

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

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