



Sitanshu Mohapatra

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.82 (Current)	2023-Present
Senior Secondary	CBSE Board	98.0%	2023
Secondary	CBSE Board	97.0%	2021

EXPERIENCE

- Sustainable Care Tech Chain** Apr 2025 - Jul. 2025
Software Development Intern Remote
 - Developed core business logic and REST APIs using **FastAPI**, focusing on modular and reusable code
 - Implemented authentication and authorization flows using JWT tokens and OAuth standards
 - Designed and maintained **PostgreSQL** database schemas, and handled database migrations using SQLAlchemy

PROJECTS

- Network Analyzer** Nov. 2024 - Dec. 2024
Course - Circuit Theory Github
 - Engineered the **simulation engine** leveraging the **NetworkX** library to model electrical networks and output vectors
 - Ensured accurate voltage and current calculations through efficient **graph algorithms and linear algebra techniques**
 - Integrated **API services** using **RESTful** principles, enabling smooth **real-time** user interaction and data visualization
 - Optimized simulation performance and implemented error handling for invalid circuits or disconnected networks
- GOSocial** May. 2025 - Jun. 2025
Social Media API using Go Github
 - Developed a robust **RESTful API** for a social media application using **Golang**, focusing on modular architecture
 - Implemented **JWT authentication**, secure middleware for route protection and token verification to validate users
 - Containerized the application using **Docker** for consistent development and deployment environments
 - Integrated a **CI workflow** using **GitHub Actions** to automate testing and code validation, ensuring code quality throughout development
- QuickBite** Dec. 2024 - Jan. 2025
Food Delivery Marketplace Github
 - Built a **Django**-based web application with secure user **authentication** and **role-based access control** for restricted endpoints
 - Integrated a **MySQL** database with Django, leveraging the **built-in ORM** for efficient and complex query handling
 - Followed **MVC architecture**, writing clean, modular, and maintainable backend logic aligned with Django best practices

TECHNICAL SKILLS

Languages: Go (Golang), Python, C/C++, JavaScript **ORM:** SQLAlchemy
Backend Technologies: FastAPI, Django, Chi* **Tools & Libraries:** NumPy, Pandas, Matplotlib, MATLAB
Databases: PostgreSQL*, MySQL **Operating Systems:** Linux*, Windows
** Elementary proficiency*

KEY COURSES TAKEN

- Mathematics:** Linear Algebra, Discrete Maths, Probability & Random Processes
- Computer Science:** Data Structure and Algorithm, Introduction to Computing
- Electrical and Electronics:** Control Systems, Analog Circuits, Signals and Systems

ACHIEVEMENTS

- Second Position:** Robotics PS, Inter Hostel Technical Competition, IIT Guwahati 2025
- JEE Advanced 2023:** Positioned in the Top 3 percentile out of 1.5 lakh candidates 2023
- JEE Mains 2023:** Outperformed approximately 99.3% of candidates out of 1.3 million 2023
- Codeforces Rating:** 1089 2025