

Samanyu Roy

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EDUCATION

Netaji Subhash Engineering College

Bachelor of Technology in Information Technology

Kolkata, West Bengal

2022 – 2026

RELEVANT COURSEWORK

- Data Structures
- Algorithms Analysis
- Operating Systems
- Systems Programming
- Software Methodology
- Database Management
- Internet Technology
- Computer Architecture

PROJECTS

Members Only | *Expressjs, Mongodb, Passportjs, Bcrypt, EJS*

Source

- Developed a secure message board platform as a personal project, enabling user sign-ups to send messages. Access to sender identification and message timestamps is restricted, requiring a unique key for membership access.
- Implemented security measures ensured privacy and controlled access to sensitive information.
- Implemented MongoDB as the primary database solution and utilized Mongoose for seamless integration and efficient data management in the project. Successfully employed these technologies to handle data storage, retrieval, and manipulation, enhancing the project's scalability and performance.

Inventory Application | *Expressjs, Mongodb, Passportjs, Multer, Pug*

Source

- Developed an Inventory application leveraging Express.js and MongoDB to meticulously manage and monitor a comprehensive catalog of PC parts.
- Utilized Express.js to create a modular route handler for different hardware components (CPU, GPU, RAM, etc.)
- Integrated Multer middleware for efficient file upload functionality, allowing users to upload images for hardware components.
- Employed Mongoose to interact with MongoDB, executing CRUD (Create, Read, Update, Delete) operations for hardware components, ensuring seamless data management and persistence.

Landing Page | *HTML, CSS*

Live Source

- Created a responsive landing page using HTML and CSS, focusing on a visually engaging design and user-friendly layout.
- Developed a navigation bar with clear and intuitive links for easy site navigation, utilizing flexbox for alignment and styling to ensure consistency.
- Implemented CSS grid and flexbox for layout structure, optimizing the display across different devices and screen sizes.
- Managed the project using version control systems (like Git) and deployed the site to a hosting platform for live viewing.

TECHNICAL SKILLS

Languages: JavaScript, Python, C/C++, MongoDB, HTML/CSS

Frameworks: Node.js, Express, React, Tailwind CSS

Developer Tools: Git, Docker, Linux, Google Cloud Platform, VS Code, Vim, npm, nginx, nodemon, dotenv

Libraries: Passportjs, Pug, EJS, Bcrypt, Mongoose, Multer

CERTIFICATIONS / EXTRACURRICULAR

Linux User Group (GNX)

Member

October 2023 – Present

Netaji Subash Engineering College

- Organized various events related to Cybersecurity and Privacy.
- Conducted comprehensive sessions and presentations on Linux and Free and Open-Source Software (FOSS) to diverse audiences.

Competitive Programming Team, GDSC NSEC

Member

October 2023 – Present

Netaji Subash Engineering College

- Tested problems related to competitive programming for a college contest