

SUBHENDU DASH

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EDUCATION

Vellore Institute of Technology

B.Tech - Electrical and Electronics Engineering, CGPA - 8.80 / 10

Sept. 2020 - July 2024

Chennai, India

WORK EXPERIENCE

Optum (UHC - E&I)

TDP Associate - Software Engineering

July 2024 - Present

Hyderabad, India

- **Developed and maintained backend services** using Spring Boot and Node.js for UHC E&I, focusing on small businesses and brokers.
- **Optimized SQL and MongoDB commands** within Spring Boot Java services, improving database performance and efficiency.
- **Implemented multithreading** in existing Java services, resulting in a 50% increase in execution speed.
- **Eliminated hardcoded logic** and integrated a new MongoDB collection, enabling dynamic introduction of new business segments.
- **Collaborated with cross-functional teams** to ensure seamless integration and deployment of backend services, enhancing overall system reliability and scalability.

POSITIONS OF RESPONSIBILITY

Hack Club, VIT Chennai

Head of Web Development Department

Nov 2020 - July 2023

Chennai, India

- Led the web development department, overseeing the design of websites for club events and hackathons.
- Conducted interviews to select and onboard talented individuals for the web development team.
- Organized and coordinated a successful CTF event, *HackQuest*, with participation from over 50 individuals.

TechnoVIT

Marketing and Sponsorship Head

Sept 2022

Chennai, India

- Headed the marketing team, successfully promoting **17** events organized by the electrical department.
- Orchestrated sponsorship efforts, establishing partnerships with multiple electrical and IT companies to secure event funding.
- Coordinated the highly attended Game Parlour gaming event, attracting participation from over **100** students.

PROJECTS

Smart Surgical Desk — [Source Code](#)

Python, NodeJS, Embedded-C

- Created a remote surgical desk prototype using Arduino, servo motors, and hand gestures for intuitive control.
- Developed a Python application with *mediapipe* for accurate hand gesture detection and interpretation.
- Implemented a seamless REST API with *expressJS* for communication between Arduino and the application.

Calories Manager API — [Source Code](#)

Python, MySQL

- Created a user-friendly REST API with *FastAPI* to help people keep track of their calorie intake, making it easier to manage their diet.
- Added role-based access control, so users, managers, and admins have the right permissions, which is especially useful for gym settings.
- Ensured the API is reliable and bug-free by using *pytest* for thorough testing and used *SQLAlchemy* as ORM.

SKILLS & INTERESTS

Programming Languages:

C/C++, Python, JavaScript, NodeJS, Java, HTML/CSS

Frameworks:

ReactJS/NextJS, Flask, FastAPI, Django

Databases and developer tools:

MySQL, PostgreSQL, Supabase, Appwrite; git, GitHub, GitHub Workflows

Interests:

Sketching, Solving Rubik's cube