SUBHENDU DASH

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EDUCATION

Vellore Institute of Technology   Sept. 2020 - July 2024
B.Tech - Electrical and Electronics Engineering, CGPA - 8.80 / 10   *Chennai, India*

WORK EXPERIENCE

Optum (UHC - E&I)   July 2024 - Present
TDP Associate - Software Engineering   *Hyderabad, India*

- **Developed and maintained backend services** using Spring Boot and Node.js for UHC E&I, handling the renewal of healthcare benefits, especially for 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   Nov 2020 - July 2023
Head of Web Development Department   *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   Sept 2022
Marketing and Sponsorship Head   *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
Frameworks:	ReactJS/NextJS, Flask, FastAPI, Django, Spring Boot
Databases and developer tools:	MySQL, PostgreSQL, MongoDB; Kafka
DevOps Tools:	git, GitHub, GitHub Workflows, Docker, Kubernetes