

Zeel Chotaliya

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Skills

Languages: C/C++, Python, JavaScript, SQL

Technologies: HTML, CSS, ReactJS, NextJS, Flask API, Bootstrap, AWS, Github, Matlab, IoT, AI & ML.

Experience

Samsung | Github Repository

May 2024 – July 2024

Software Developer Intern

Bangalore, Karnataka

- Developed SQLViz, a visualization tool that converts complex SQL queries into graphical representations, reducing query analysis time by 70% and improving developer productivity for a team of 50+ engineers.
- Engineered a Flask-based web application handling 100+ daily queries, integrating Python, Jinja, Graphviz, HTML, CSS, and JavaScript to process complex SQL statements up to 1000 lines long.
- Implemented SQLViz into Samsung's production environment, streamlining development processes and saving an estimated 20 hours per week across the development team.

Projects

Shop Sphere: E-Commerce Platform | HTML, CSS, JavaScript, Firebase, Bootstrap

Link

- Developed a nationwide e-commerce platform connecting local businesses with customers, featuring real-time inventory updates and efficient nearby item search functionality.
- Implemented a responsive design using Bootstrap, ensuring seamless user experience across various devices and enabling convenient browsing without physical store visits.
- Integrated Firebase for backend services, allowing direct customer-to-shop connections and showcasing reputable vendors to instill user confidence.

Seat-Detection-System | React, Html, CSS, IoT - Arduino IDE

Prototype-Link

- Developed a real-time seat availability monitoring system using IoT sensors, ESP32 modules, and ThingSpeak cloud integration, applicable in libraries, parking lots, and auditoriums, enabling remote access to occupancy data.
- Designed and implemented a full-stack IoT solution with a React-based user interface, showcasing end-to-end system architecture skills from sensor data collection to cloud processing and front-end display.

Education

IIT (ISM) DHANBAD

Expected May 2025

B-Tech in Electronics & Communication Engineering, Minor in Finance and Management (GPA: 9.40 / 10.00) Dhanbad, Jharkhnad

- **Relevant Coursework:** Circuit Designs and Analysis, MATLAB, Electronics Testing and Troubleshooting, Electronics Simulation software, Microprocessors & Microcontrollers, Control System, Digital Signal Processing, Electromagnetic Theory, Networking, VLSI code, IOTs, Sensors, Data Structures and Algorithms (C++), Prob & Stat, Intro to CS II (C++), Linear Algebra w/Computational Applications (Python), Finance Accounting and Reporting, Corporate Finance, Management of Banks and Finance.

Achievements

- Certificate of Excellence in DSA - Coding Ninjas, Certificate of Excellence in C++ - Coding Ninjas, Certificate of Teaching Assistant - Coding Ninjas, Bronze Medal in SOF IMO, Achieved a perfect 10 GPA in 4th semester.

Link

Social Engagements

Vice-President: Of Society of Electronics Engineering, IIT Dhanbad

Club Member : at CYBER LABS -tech society of IIT Dhanbad

Sports-Engagements: Badminton, chess, cricket.