Chandresh Patel

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EDUCATION

BTech, Computer Science and Engineering   August 2021 Onwards
Vellore Institute of Technology, Bhopal   8.04 CGPA

TECHNICAL SKILLS

Languages: C/C++, Python, JavaScript, SQL
Technologies & Tools: ReactJS, Express.js, Node.js, Postman, Figma, Docker

ACADEMIC PROJECTS

Path-Finder   (December 2023)

- Developed an **algorithm visualization** application named Path-Finder using React for the user interface and JavaScript for implementing **BFS** (Breadth-First Search) and **DFS** (Depth-First Search) algorithms.
- Facilitated algorithm understanding through **interactive node customization**, **step-by-step visualization**, and **move counter**.
- Integrated **random maze generation** and **algorithm execution features**, using React for improved graph rendering and learning experiences.

Chivalry Choice   (January 2024- May 2024)

- Engineered the **backend API**, integrating **Stripe** for secure payment processing & **Postman API** for thorough testing.
- Implemented secure **user authentication** and **authorization** mechanisms.
- Defined and maintained **CRUD** (Create, Read, Update, Delete) functionalities for **product** and **order management**.
- Tested thoroughly with **Postman API** for robustness and reliability.

MemeVision   (April 2024)

- Created and deployed MemeVision, an advanced **image search engine** with **JavaScript** and **Weaviate**, achieving 95% accuracy in image similarity searches through innovative **neural network-based image processing** techniques.
- Implemented **image similarity searches**, by integrating **ResNet-50 neural networks** and **Dockerized Weaviate modules**.
- Developed an efficient **image search system** using **vector property indexing**, resulting in a 45% increase in search speed and a 30% improvement in accuracy for a dataset of 600k images.

CERTIFICATIONS

- HackerRank SQL(Intermediate) Certification

WORK EXPERIENCE

Ethnus Full Stack Developer   (November 2023 – January 2024)

- Upgraded and integrated 10+ new features using MERN stack technology across 2 frontend applications, improving **user experience** and **application usage**.
- Resolved 50+ backend bugs using RESTful API, boosting system reliability by 25%.
- Deepened understanding of the **MERN stack** and **backend optimization**, overcame a steep learning curve while tackling various challenges.

EXTRA-CURRICULAR ACTIVITIES

- Secured an overall rank of 62 in the "**OpenCode'23**", an **open-source** event hosted by IIIT Allahabad
- Solved over 150+ questions on **Data Structures and Algorithms** (DSA) and SQL across platforms like LeetCode, GeeksforGeeks, and HackerEarth
- Designed intuitive and user-friendly interfaces for various web applications, enhancing user experience and accessibility through thoughtful **UI/UX** design principles.

ADDITIONAL INFORMATION

- Hobbies: Guitar, Digital Illustration
- Languages: English (Fluent), Hindi (Fluent)