Krupal Sidhdhapura

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EDUCATION

G H Patel College of Engineering & Technology Vallabh Vidyanagar, Anand, Gujarat, India
B.Tech in Computer Engineering; CGPA: 7.75/10 *2022 – 2026*

Oaj Institute of Science Bhavnagar, Gujarat, India
Higher Secondary Education; Percentage: 83% *2020 – 2022*

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Java, JavaScript, C#, PHP
Web Technologies: HTML, CSS, Bootstrap, Node.js, React.js, Next.js, Express.js
Databases: MySQL, MongoDB
Tools & Platforms: Git, VS Code, Jupyter Notebook, Postman

EXPERIENCE

MERN Stack Developer Intern May 2025 – June 2025
BrainyBeam Technologies (Remote)

- Developed and deployed real-world full-stack projects using MongoDB, Express.js, React, and Node.js.
- Designed and optimized RESTful APIs for scalability and efficient data exchange between frontend and backend.
- Implemented secure user authentication and role-based access control using JWT and bcrypt.
- Built interactive, dynamic frontend interfaces in React, focusing on performance optimization and reusability of components.
- Collaborated with a cross-functional team to debug, test, and deploy features in a fast-paced Agile environment.
- Integrated third-party APIs and handled asynchronous operations using Axios and Redux Toolkit.
- Improved project performance by reducing API response time by 20% through query optimization and caching.
- Gained hands-on experience with Git version control, CI/CD pipelines, and cloud deployment strategies.

PROJECTS

Blogging Platform | *MERN Stack (MongoDB, Express.js, React, Node.js)*

- Developed a responsive, full-stack blogging platform with user authentication, content creation, and comment features.
- Designed a modern UI with React, Bootstrap, and React Router for smooth navigation and responsiveness.
- Implemented secure authentication using JWT-based login/signup and protected API routes.
- Built scalable RESTful APIs in Express.js for managing blogs, users, and comments.
- Deployed the platform on cloud hosting (Render/Vercel) ensuring accessibility and uptime.
- Optimized MongoDB queries and indexing, reducing page load and improving backend efficiency.

Handwritten Digit Recognition System | *Python, Flask, CNN, MNIST*

- Built a digit recognition model trained on the MNIST dataset using Convolutional Neural Networks (CNN).
- Developed a Flask-based web interface where users can draw digits and receive real-time predictions.
- Applied preprocessing techniques such as image binarization, resizing, and normalization for higher accuracy.
- Achieved high accuracy (¿98%) on test data with hyperparameter tuning and dropout regularization.
- Extended application into a Sudoku solver by integrating digit recognition with puzzle-solving algorithms.
- Deployed the model as a lightweight web app demonstrating applied machine learning concepts.

PROBLEM-SOLVING & COMPETITIVE PROGRAMMING

- Solved 600+ problems on LeetCode across various DSA topics including graphs, DP, and advanced data structures.
- LeetCode contest rating: **1600** (Top 25% globally).
- Secured Global Rank **745** in LeetCode Biweekly Contest-156 among thousands of participants.
- Strong expertise in Data Structures & Algorithms with competitive programming experience.