

ABHYUDAY SINGH

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Summary

Full-Stack Developer with a strong foundation in JavaScript, React, Node.js, and Java. Strong experience in database design (SQL & PostgreSQL), RESTful APIs, and DevOps practices(Docker). Skilled in designing, building, and deploying scalable applications to deliver high-performance software solutions. Interested in collaborating with cross-functional teams on innovative development projects in a dynamic environment.

Skills

Programming & Querying: Python, Java, JavaScript, SQL, HTML5, CSS

Frameworks: React.js, Bootstrap, Node.js, Express.js

Libraries & Tools: : jQuery, EJS, PostgreSQL, RESTful APIs, Bash, Git, GitHub

Projects

Sign Language Gesture Recognition | *Python, TensorFlow, OpenCV, MediaPipe* **Jan 2024 – Jun 2024**

- Developed and trained a Convolutional Neural Network (CNN) to classify 26 distinct American Sign Language gestures, achieving 96 percentage validation accuracy.
- Engineered a real-time recognition system using OpenCV to capture and process live webcam video feed for instant gesture translation.
- Utilized MediaPipe for robust hand landmark detection to extract key features, significantly improving model performance and reducing latency.

Automated Event Entry System (Quick Entry) | *Next.js, Express.js, MongoDB, Tesseract.js* **Jan 2025 – Apr 2025**

- Developed a full-stack automated attendance system to scan college IDs, extract registration numbers using Tesseract.js OCR, and verify participants against a database.
- Built a comprehensive admin console and RESTful API using Node.js and Express.js for event creation, participant management, and bulk data uploads.
- Implemented security features including multi-factor admin authentication and AES encryption for API responses to ensure secure data handling and prevent unauthorized access.

Decentralized Finance (DeFi) DApp - DBANK | *JavaScript, Solidity, React* **Jul 2025 – Present**

- Developed a decentralized banking application enabling users to deposit, withdraw, and earn interest via smart contracts
- Integrated React frontend with MetaMask/Internet Computer wallet for seamless DeFi transactions
- Implemented unit tests using Hardhat and deployed contracts on Ethereum/ICP testnets for scalability testing

Certifications

- **Deloitte Technology Job Simulation – Forage (2025):** Completed a virtual internship involving real-world tasks in data analysis.
- **Applied Machine Learning in Python – Coursera (2023):** Gained hands-on experience with Python libraries like scikit-learn and pandas to build and evaluate machine learning models.
- **NPTEL Cloud Computing – NPTEL (2024):** Mastered fundamental concepts of cloud computing, including virtualization, service models (IaaS, PaaS, SaaS), and deployment strategies.

Education

VIT Bhopal University

Integrated Masters of Technology

Oct 2022 - Present

CGPA: 8.55 / 10