

Mihir Panchal

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EDUCATION

Concordia University

Masters of Science in Computer Science

Montréal, QC

Jan. 2024 – Dec 2025

Gujarat Technological University

Bachelor's in Computer Engineering

Gujarat, India

Aug. 2019 – May 2022

EXPERIENCE

Software Engineer

Niravadhi Technologies Private LTD.

Aug. 2022 – Mar. 2023

Gujarat, India

- Developed and maintained scalable backend services for the “Wall” web application using Node.js, Express.js, and MongoDB, ensuring high availability and handling a 50% increase in user base without performance degradation.
- Designed and deployed GraphQL APIs to streamline client-server communication, and automated testing and CI/CD processes using Jenkins, Mocha, Docker, and Kubernetes, improving deployment efficiency and system reliability.

Full-Stack Development Intern

Unnati Informatics LLP.

Jan. 2022 – June 2022

Gujarat, India

- Developed core features of an HR Portal using the MERN stack, optimizing employee management, leave tracking, and payroll processing through RESTful API endpoints and workflow automation.
- Optimized MongoDB queries and indexing strategies, reducing API response times by 40%, and created reusable React components for UI consistency, code maintainability, and secure file uploads and document management.
- Used Git and GitHub for version control, participating in code reviews and collaborative development workflows.

PROJECTS

Real-Time Chat App | *React, Firebase, WebSockets, Node.js*

Jan. 2022 – Mar. 2022

- Developed a scalable real-time chat application using React.js, Firebase Firestore, and WebSockets, enabling instant messaging with dynamic user presence indicators for 1000+ concurrent users.
- Implemented Firebase authentication and Firestore batch writes to optimize database efficiency, reducing query costs by 30% and ensuring seamless user experience.

Plant Disease Detection using CNNs | *Python, PyTorch, HTML/CSS, MySQL*

Oct. 2021 – Dec. 2021

- Built and trained a CNN model using PyTorch to detect and classify plant diseases from leaf images, achieving 94% accuracy through data augmentation and hyperparameter tuning.
- Developed a web-based interface for farmers using Flask, HTML/CSS, and MySQL, allowing real-time image uploads and disease predictions, reducing manual diagnostic errors by 60%.

Automated Attendance System | *Java, Maven, Android, MySQL, XML, Git*

May. 2020 – Jul. 2020

- Developed an Android-based attendance system using Java and XML, enabling real-time attendance tracking and automated report generation.
- Integrated MySQL for backend storage, ensuring data integrity and security, and implemented real-time sync between app and database, reducing attendance errors by 50

TECHNICAL SKILLS

Languages: C, C++, Java, JavaScript, Typescript, Python, R, SQL, PHP, Kotlin

Frameworks: React.js, Node.js, Express.js, Flask, JUnit, Jest, Material-UI, REST API

Developer Tools: Git, Docker, VS Code, PyCharm, IntelliJ, Eclipse, Postman, MS Office, \LaTeX

Databases: MongoDB, MySQL, PostgreSQL, Firebase, Redis

ACHIEVEMENTS & CERTIFICATIONS

Certifications: Python for Data Science and Machine Learning Bootcamp, Python Data Structures

Publications: Blockchain-Based Software-Defined Vehicular Networks for Intelligent Transportation System Beyond 5G