Mihir Panchal

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Technical Skills

Programming and Technologies	C, C++, Java, JavaScript, PHP, Python, R, React...............
Professional Softwares	Orange, Git, Postman .....
Drawing & Typesetting	Office, LaTeX, Adobe InDesign.........

Experience

UpWork — *Ahmedabad*
Freelancer — Jan 2019 - December 2019

- Developed and maintained high-performance backend solutions using PHP, ensuring scalability and reliability across multiple projects
- Optimized SQL queries and database structures, leading to a 30% improvement in application performance
- Implemented RESTful APIs to integrate with frontend applications, enhancing user experience and functionality
- Conducted code reviews and debugging sessions to maintain code quality and minimize production issues
- Managed project timelines and deliverables, ensuring on-time and within-budget delivery for all client projects with technical support and maintenance post-deployment, achieving a 95% client satisfaction rate

Unnati Informatics LLP. — *Ahmedabad*
Frontend/Backend Engineer — January 2022 - June 2022

- Assisted in developing and maintaining backend services using Node.js and Express, contributing to scalable and efficient web applications
- Contributed to the implementation of authentication and authorization processes, enhancing the security of user data
- Gained experience in version control and collaboration using Git, participating in code reviews and team-based development
- Worked with front-end developers to understand full-stack development workflows and the interaction between client-side and server-side code
- Contributed to documentation and knowledge sharing within the team, supporting the on-boarding of new interns and junior developers

Niravadhi Technologies Private Limited — *Ahmedabad*
Backend Engineer — August 2022 - March 2023

- Engineered and maintained back-end services using Node.js and Express, ensuring seamless integration with MongoDB and React.js front-end
- Designed and implemented RESTful APIs and GraphQL endpoints, enabling efficient data retrieval and manipulation across application
- Optimized database schemas and queries in MongoDB, resulting in a 25% reduction in data retrieval times
- Automated testing and continuous integration processes using tools like Jenkins and Mocha, improving code reliability and deployment efficiency
- Conducted regular code reviews and refactoring to maintain high code quality and adhere to industry best practices
- Led backend development efforts for a high-traffic web application, successfully handling a 50% increase in user base without performance degradation.

Projects

Gruh Udhyog
Android, Kotlin, Firebase — January 2018 - August 2018

- Designed and developed a user-friendly Android application that connects local homemade creators with customers, facilitating the sale and doorstep delivery of specialty products
- Integrated real-time database capabilities with Firebase Firestore, allowing creators to manage inventory, orders, and customer interactions seamlessly
- Developed a location-based service using Google Maps API, enabling customers to discover local creators and track their orders in real-time
- Collaborated with a small team to conduct user testing and feedback sessions.

Attendance application
Android, Java, MySQL — May 2020 - December 2020

- Developed user-friendly interfaces with Java and XML, allowing teachers and administrators to easily mark attendance, generate reports, and monitor student participation
- Implemented a robust backend system using MySQL to store and manage attendance records, ensuring data integrity and security
- Integrated a real-time synchronization feature between the Android app and MySQL database, ensuring up-to-date attendance records across devices
- Implemented role-based access controls, ensuring secure access to attendance data for different user roles, including teachers, students, and administrators

PlantME

PyTorch
<div align="right">September 2021 - December 2021</div>

- Developed and trained a convolutional neural network (CNN) using PyTorch to accurately detect and classify plant diseases from leaf images, achieving a high accuracy rate
- Collected and preprocessed a dataset of thousands of plant leaf images, applying techniques such as data augmentation and normalization to improve model performance
- Optimized the model's performance by fine-tuning hyperparameters, reducing inference time by 20% without compromising accuracy.
- Published the project on GitHub, making the model and codebase available to the open-source community, and received positive feedback and contributions from other developers

Education

Concordia University
<div align="right">*Montréal, Canada*</div>

Master's Of Applied Computer Science
<div align="right">January 2024 - Present</div>

Vishwakarma Government Engineering College
<div align="right">*Ahmedabad, India*</div>

Bachelor's Of Computer Engineering
<div align="right">August 2019 - May 2022</div>

Certifications and Academic Achievements

2022	**Award**: Recipient Of Academic Excellence Award
2020	**Certificate**: "Data Science with Python"
2020	**Certificate**: "Python With Django Framework"
2019	**Contest**: Participant in "SSIP Hackathon"
2017	**Contest**: Winner of "Web Designing"

Publications

[1] **M**ihir Panchal, Yash Modi, Jitendra Bhatia, Sudeep Tanwar. "Blockchain-Based Software-Defined Vehicular Networks for Intelligent Transportation System Beyond 5G." *In Advances in Computing, Informatics, Networking and Cybersecurity: A Book Honoring Professor Mohammad S.* , pp. 513-533. Cham: Springer International Publishing, 2022.[Link]