

Mitkumar Patel

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Summary

Software Developer with experience building and supporting scalable, database-driven applications for business stakeholders. Strong background in Python, SQL, and backend systems, with hands-on exposure across the full Software Development Life Cycle (SDLC), including design, development, testing, deployment, and post-deployment support. Proven ability to translate business requirements into reliable technical solutions while collaborating in Agile, cross-functional team environments.

Technical Skills

- **Languages:** C, C++, Python, JavaScript, SQL, PHP, Java (basic)
- **Databases:** MySQL, MongoDB, Firebase
- **Backend:** Node.js, Express.js, REST APIs, Object-Oriented Programming (OOP)
- **Frontend:** React.js, Redux, Angular, HTML5, CSS3, Tailwind CSS, Material UI
- **Mobile:** React Native (Expo), Android (basic)
- **Scripting:** Bash / Shell scripting (basic)
- **CI/CD & Tools:** Git, GitHub, GitHub Actions, Postman, Jira (basic), Confluence (basic)
- **Data & Analytics:** Pandas, Seaborn, Spark SQL, DataFrames
- **Cloud:** Microsoft Azure (deployment and services)

Education

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| Master of Applied Computing (3.3/4.0) University of Windsor, Windsor, ON | Sep 2024 – Dec 2025 |
| Bachelor of Engineering in Information Technology (8.62/10 CGPA) G H Patel College of Engineering and Technology, India | Jul 2020 – May 2024 |

Experience

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| Software Engineer JLR North America (University of Windsor) | Sep 2025 – Dec 2025 |
| <ul style="list-style-type: none">• Won the JLR–University of Windsor Hackathon, earning a 2-week paid internship for delivering a top-ranked solution.• Designed and optimized DRAM configurations using DRAMSys 5.0 to improve AI inference performance in automotive systems.• Analyzed memory latency and bandwidth bottlenecks affecting real-time AI workloads.• Collaborated with cross-functional engineering teams to analyze requirements, validate results, and deliver technical reports and performance visualizations. | |
| Software Developer Tech Elecon Pvt. Ltd. (Hybrid, India) | Dec 2023 – May 2024 |
| <ul style="list-style-type: none">• Built and maintained scalable full-stack web applications using React.js and Node.js to support internal business operations.• Translated business requirements into backend services and RESTful APIs backed by relational databases.• Troubleshoot application issues, optimized backend performance, and supported deployed features to ensure system reliability.• Participated in code reviews and followed Git-based workflows to improve code quality and maintainability. | |
| Software Developer Intern TatvaSoft (Remote, India) | May 2023 – Jun 2023 |
| <ul style="list-style-type: none">• Developed responsive single-page applications using React.js following Agile development practices.• Collaborated with backend teams to integrate REST APIs and validate application functionality.• Implemented state management using Redux and Context API to improve application stability and user experience. | |

Projects

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| Cricket Coaching App (Mobile) – React Native, Azure Cloud | Jun 2023 |
| <ul style="list-style-type: none">• Built a mobile application enabling video annotation and real-time player–coach feedback.• Deployed backend services on Azure Cloud for authentication, media storage, and secure data handling in a production-like environment. | |
| • GitHub: Cricket-App | |
| Crime Data Analysis Platform – Python, Pandas, Seaborn | Mar 2023 |

- Developed a data analytics platform for Toronto crime data with filtering and geospatial heatmaps.
- Optimized data pipelines to efficiently process and visualize large datasets.
- GitHub: Crime-Prediction

E-Book Store – MERN Stack

Jun 2023

- Designed and developed a full-stack e-commerce application with authentication, cart management, and payment integration.
- Applied Redux for state management and MongoDB Atlas for scalable data persistence.
- GitHub: E-Book Store

Certifications

- Programming for Everybody (Getting Started with Python)
- Introduction to Spark SQL and DataFrames
- Introduction to the Internet of Things and Embedded Systems
- Introduction to Artificial Intelligence (AI)
- Data Science Fundamentals for Data Analysts