

Bhavya Patel

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EDUCATION

Toronto Metropolitan University

Bachelor of Science (BSc) in Computer Science - CGPA: 3.7 / 4

Toronto, ON

Expected graduation: April 2027

Relevant Coursework: Object Oriented Programming, Data Structures & Algorithms, Machine Learning, Database, Linux, Bash shell programs

TECHNICAL SKILLS

Programming & Databases: Python, SQL, Java, C/C++, HTML, CSS, JavaScript, MS SQL Server, Firebase, Microsoft Azure

Data Science & Analytics: scikit-learn, TensorFlow, Keras, Pandas, NumPy, Matplotlib, Power BI, Figma

Tools & Systems: Git, GitHub, Jira, RESTful APIs, iOS, Android, Microsoft Office (Excel, Word, PowerPoint), Google Workspace

WORK EXPERIENCE

Mobile App and Academic Initiatives Developer

Toronto Metropolitan University

May 2025 - Present

Toronto, ON

- Developed and deployed a cross platform mobile application for iOS and Android in React Native, implementing user focus design to enhance student engagement for 1,000+ users.
- Architected robust backend and scalable solutions using Firebase, ensuring high availability and reliability for cloud-based services.
- Collaborated with project managers in an agile environment to translate stakeholder requirements into technical specifications and deliverables.
- Performed rigorous quality assurance (QA) testing, system monitoring, and debugging to maintain a high quality, bug free user experience.

Library Digitization Projects Assistant

Toronto Metropolitan University

Sep 2024 - April 2025

Toronto, ON

- Streamlined the digital archival process by utilizing specialized scanning software and metadata entry tools, increasing processing speed for academic records by 20%.
- Executed a high volume data management project, ensuring 100% data quality, accuracy, and control in compliance with AODA accessibility standards.

IT Technician

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October 2022 - May 2024

Moncton, NB

- Applied analytical and problem solving skills to troubleshoot and resolve over 500 client technical issues related to hardware, software, Windows, and network configurations in an agile team.
- Implemented solutions that reduced average ticket resolution time by 15%, enhancing operational efficiency.
- Orchestrated the deployment and configuration of enterprise software and security patches across client devices, utilizing strong communication and verbal skills to ensure 100% compliance with corporate security protocols.

PROJECTS

Predictive Modeling Case Study (DBP)

Python, scikit-learn, Pandas, NumPy, TensorFlow, Keras, Matplotlib

- Cleaned and preprocessed large scale datasets using Python (Pandas, NumPy) to ensure data quality and readiness for data analytics, and machine learning workflows.
- Developed, trained, and optimized data-driven machine learning models (Linear Regression, CNN) with scikit-learn and TensorFlow, applying techniques like hyperparameter tuning and PCA to enhance performance and reduce complexity by 30%.
- Created technical documentation and visualizations (Matplotlib) to present model results, evaluation metrics, and insights clearly to stakeholders.

AI-Powered Chatbot App and API

React Native, JavaScript, Node.js, Microsoft Azure, OpenAI API, SQL

- Supported the deployment and integration of an AI model (OpenAI API) into a full-stack solution.
- Contributed to model integration by developing a Node.js backend API to process complex user queries (similar to LLM workflows), improving response accuracy by 25%.
- Architected a scalable Azure backend to manage user data and API requests, utilizing SQL for data persistence.