

Mekaheel Malik

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Education

McMaster University	Hamilton, ON
<i>Pursuing a Bachelor of Computer Science, Minor in Innovation. MES Council Representative</i>	Sept. 2024 – present
• Key Courses: Software Development, Data Structures & Algorithms, Web Development, Logical Reasoning	

Experience

Software Engineer Intern/Coop	May 2025 – August 2025
<i>TD Bank Canada</i>	<i>Hybrid / Toronto, ON</i>
• Delivered a scalable solution for on-demand event processing, addressing high-volume authentication needs (100,000+ monthly requests) by developing and deploying RESTful API using Spring Framework.	
• Realized a 50% reduction in API load time by identifying API bottlenecks and implementing pre-caching for overlapping data using Spring Data.	
• Collaborated with senior team members to reduce data overload through database normalization cutting database size by 10%+ and reducing API response size by 5% .	
• Assisted with development of API adapter to reduce unnecessary sub-calls by 60% through consolidation.	
Undergraduate Research Assistant	August 2025 – Present
<i>McMaster University</i>	<i>Hamilton, ON</i>
• Collaborated with faculty and research team to design machine learning models predicting NBA player injury risk , generating actionable insights for performance and risk management.	
• Collected datasets from web and API sources using Selenium and Beautiful Soup. Cleaned and merged datasets using SQL to build analysis-ready tables.	
• Trained and evaluated Scikit-learn models on 10,000+ NBA game logs and injury reports using Python to identify player health and injury trends.	
• Contributed to forthcoming research publication by documenting methodology, experimental results, and recommendations for broader applications of predictive analytics.	
Software Developer - Summer Intern	July 2024 – August 2024
<i>Infinite Investment Systems</i>	<i>Toronto, ON</i>
• Created browser-based testing of internal sites using Selenium increasing test coverage by 30%.	
• Wrote integration tests for API endpoints utilizing Requests library to decreasing runtime by 10ms.	
• Met internal testing needs by creating testing data using Faker and Pandas to generate 50+ GBs of data .	
Database Administrator	June 2022 – Sept. 2022
<i>Penny Appeal Canada</i>	<i>Mississauga, ON</i>
• Managed data migration into CRM system, automating through UIPath Robotic Process Automation	
• Contributed to website campaigns developing front-end development skills using HTML/CSS	

Projects

RapidReport Accessibility Report Assistant <i>Cohere, Google API, Next.js, TypeScript, Tailwind</i>	DeltaHacks 2025
• Developed accessibility reporting web application allowing users to document infrastructure issues through image uploads with AI-generated professional emails to businesses and government entities.	
• Built frontend using Next.js and Tailwind CSS with screen reader compatibility and optimized color contrast for users with diverse accessibility needs.	
• Utilized Google Geocode API to automatically identify and route reports to nearest relevant recipients .	
• Integrated Cohere AI NLP to generate professional emails from uploaded images and text prompts.	
Plant Pals IoT Plant Monitor <i>Arduino, HTML, CSS, JavaScript</i>	Hack The North 2022
• Collaborated to build IoT plant monitoring system integrating Arduino sensors with web dashboard.	
• Resolved hardware compatibility issues through adaptive problem-solving developing my Arduino skills	

Technical Skills

Languages:	Python, Java, C, PostgreSQL, JavaScript, TypeScript, HTML/CSS
Developer Tools:	Git, VS Code, Cursor, GitHub, Visual Studio, PyCharm, JIRA, Jupyter Notebook
Libraries:	Pandas, NumPy, Matplotlib, Selenium, Dask, Beautiful Soup, Faker, Requests, Spring Framework, React