

Andro Rizk

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Education

York University B.Sc., Hons. Computer Science - 3.8 GPA	Expected May 2027 Toronto, ON
<ul style="list-style-type: none">Related courses: Machine Learning, Introduction to AI, Object Oriented Programming, Data Structures, Databases.Awards: 3 x Dean's Honour Roll (2021/22, 2022/23, 2023/24).	

Experience

Software Engineer Intern <i>TD Bank</i>	Jan 2026 – Apr 2026 Toronto, ON
<ul style="list-style-type: none">Incoming internship at TD in the Platforms & Technology team, focusing on backend development and deployment.	
Data Engineer Intern <i>CIBC Bank</i>	Sep 2025 – Dec 2025 Toronto, ON
<ul style="list-style-type: none">Building scalable ETL pipelines to preprocess large-scale transactional data and applying ML techniques for fraud detection, with insights deployed through interactive dashboards in PySpark, Databricks, and Power BI.Improved fraud detection accuracy by 30% through a full-stack data platform built with React, Python, and PySpark to process millions of records for the Fusion team.	
ML Software Engineer Intern <i>Expitch · Part time</i>	July 2025 – Present Toronto, ON
<ul style="list-style-type: none">Developing a multi-agent pipeline enabling multiple LLMs to collaborate, debate, and refine responses through advanced prompt engineering to achieve optimal results.Designing and developing a secure authentication and tokenization system using React, Node.js, and MongoDB, integrating SSO with Auth0, API key management, and session handling.	
ML Research Intern <i>Lassonde School Of Engineering</i>	May 2025 – Sep 2025 Toronto, ON
<ul style="list-style-type: none">Working with prof Zhen Ming Jiang in collaboration with Huawei to develop a production-grade deep learning and NLP models and pipelines that reliably convert Android/iOS apps to the Huawei native OS apps.Designing a multi-stage RAG LangChain pipeline using Python and MCP to orchestrate model interactions, and fine-tuning LLMs with PyTorch for Platform-to-Platform migration.	
Software Engineer Intern <i>Regional Municipality of York</i>	Sep 2023 – Sep 2024 Toronto, ON
<ul style="list-style-type: none">Enhanced testing efficiency by 80% by developing 20+ Python, Pytest and Selenium test scripts, integrated into a Jenkins CI/CD pipeline to ensure that other interconnected applications remain unaffected by updates.Launched an Angular/Django Change Request Management app, following Agile (SDLC) methodologies, Dockerized and deployed on AWS EC2 with MS Oracle DB, enabling ticket submission and enhancing test efficiency.Integrated multithreading to process 20+ system log files in parallel into a Flask-based Python interface, reducing mean time to identify errors by 50% and streamlining debugging across departments.	

Projects

YU Classroom Finder React, Next.js, Typescript, TailwindCSS, Python, MySQL, docker, AWS EC2	↗ [Demo] 🔗 [Github]
<ul style="list-style-type: none">Worked with a team of three to develop a web app that helps YorkU students find available classrooms for studying using official resources. Now deployed and actively used by 5000+ students.	
Object Detector Python, PyTorch, Torchvision, Matplotlib, Azure (AKS), AWS S3, Kubernetes	↗ [Demo] 🔗 [Github]
<ul style="list-style-type: none">Programmed a custom object detection model using Faster R-CNN achieving 70% accuracy on the COCO dataset to accurately detect and classify objects in complex images.	
Toronto House Price Predictor Python, Flask, Pandas, Scikit-learn, React, Azure (AKS), Kubernetes	↗ [Demo] 🔗 [Github]
<ul style="list-style-type: none">Developed an app predicting Toronto house prices with 85% accuracy using a Random Forest model, allowing users to explore predictions by neighborhood and building type for informed real estate decisions.	

Technical Skills

Languages: Python, Java, JavaScript, SQL, NoSQLTypeScript, PHP, C, C++, Bash, Perl, Swift, HTML, CSS, UML.

Tools and Frameworks: Git, Jira, Confluence, React.js, pandas, scikit-learn, TensorFlow, PyTorch, Docker, Kubernetes.