

Andro Rizk

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Education

York University

Expected May 2027

B.Sc., Hons. Computer Science - 3.8 GPA

Toronto, ON

- **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

Jan 2026 – Apr 2026

TD Bank

Toronto, ON

- Incoming internship at TD in the Platforms & Technology team, focusing on **Java** development and deployment.

Data Engineer Intern

Sep 2025 – Dec 2025

CIBC Bank

Toronto, ON

- Improved fraud detection accuracy by 30% through a full-stack data platform built with **React**, **Python**, and **PySpark**, deployed on **AWS EC2** to process millions of records for the Fusion team.
- 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**.

Software Engineer Intern

July 2025 – Present

Expitch · Part time

Toronto, ON

- 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.
- Enhancing team productivity by 20% by designing and automating a full **CI/CD** pipeline using **GitHub Actions**, enabling seamless code integration and automated testing to streamline delivery and reduce manual overhead.

ML Software Engineer Intern

May 2025 – Sep 2025

Lassonde School Of Engineering

Toronto, ON

- Working with prof Zhen Ming Jiang in collaboration with Huawei to develop and research production-grade ML models and pipelines that reliably convert **Android/iOS** apps to the **Huawei** native OS apps.
- Designing a multi-stage **RAG langchain** in **Python**, fine-tuning **LLMs** with **PyTorch**, containerizing training on **Kubernetes** for **Java/Kotlin-to-ArkTS** migration, evaluating UI accuracy, build integrity, and runtime stability.

Software Engineer Intern

Sep 2023 – Sep 2024

Regional Municipality of York

Toronto, ON

- 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*

[\[Demo\]](#) [\[Github\]](#)

- 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*

[\[Demo\]](#) [\[Github\]](#)

- 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.

Home Server Environment | *UNIX/Linux, Shell Scripting, AWS Lambda, Jenkins, SSL/TLS*

- Repurposed old laptops into Linux servers by optimizing resources, configuring ports, deploying APIs and databases, hosting **CI/CD pipelines**, and enabling **HTTPS (SSL/TLS)**.

Technical Skills

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

Tools and Frameworks: Git, Jira, Confluence, React.js, DynamoDB, Spring Boot, Terraform, PyTorch, Docker, Kubernetes.