

Andro Rizk

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Education

York University B.Sc., Hons. Computer Science - 3.8 GPA	Expected May 2027 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 <i>TD Bank</i>	Jan 2026 – Apr 2026 Toronto, ON
• Incoming internship at TD in the Platforms & Technology team, focusing on Java development and deployment.	
Data Engineer Intern <i>CIBC Bank</i>	Sep 2025 – Dec 2025 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 <i>Expitch · Part time</i>	July 2025 – Present 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 <i>Lassonde School Of Engineering</i>	May 2025 – Sep 2025 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 <i>Regional Municipality of York</i>	Sep 2023 – Sep 2024 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.