Felo Tadros

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EXPERIENCE

NVIDIA   Jan 2026 – Present
Infrastructure Software Engineer | *Python, Jenkins, Kubernetes, GitLab CI, Redis, Helm*   *San Jose, CA*
- Continuing full-time role at NVIDIA with the same team as below

NVIDIA   May 2025 – Aug 2025
Infrastructure Software Engineer Intern | *Python, Jenkins, Kubernetes, GitLab CI, Redis, Helm*   *San Jose, CA*
- Testing, building and releasing TensorRT, a high performance deep learning inference engine, the core of all NVIDIA AI products, supporting 100+ build/test configurations and bi-weekly releases
- Designed a two-tiered **Redis** based caching solution, using **Helm**, resulting in **60%** faster builds for **200+** developers and **50%** faster cold CI builds, with a **DataDog** sidecar for data collection
- Developed a comprehensive testing harness and overview dashboard for our internal **Jenkins** Shared Library, increasing our reliability and visibility for our CI/CD system
- Researched and prototyped advanced infrastructure solutions, such as a distributed compilation system and a migration strategy for transitioning builds from Jenkins to GitLab CI, enhancing future scalability

Manulife Financial - John Hancock   May 2024 – Aug 2024
Software Engineer Intern | *Python, Kubernetes, Azure Cloud, Terraform, Docker*   *Toronto, ON*
- Co-designed and implemented a distributed system that utilized **Terraform**, **Azure**, and **GPT4-o** to identify and redact sensitive information from documents
- Presented and defended design decisions in front of **60+** senior/staff engineers and architects
- Revived a project by designing and implementing a **Kubernetes** cluster on **Azure Cloud**, using **Terraform**
- Engineered and implemented a **Docker**-based test suite to ensure consistent environments for unit testing, improving developer reliability

Evertz Microsystems   May 2023 – Dec 2023
Platform Engineer Intern | *AWS, Jenkins, Docker, React, GitHub Actions, Bazel*   *Toronto, ON*
- Led the redesign of an internal platform using **AWS ECS**, resulting in faster load times and **100% up-time**
- Reduced over **15%** of **AWS EC2** build fleet size, using **AWS Lambda** to monitor and manage nodes
- Spearheaded containerization efforts using **Docker**, orchestrated multiple "lift and shifts" onto **AWS EC2**, optimizing over **half a dozen** broken services
- Led the development for an internal system using **AWS API Gateway** that managed a fleet of AWS EC2 instances, resulting in **35% reduced** costs and decreased downtime
- Contributed to weekly team-wide AWS cost savings meetings, presenting and proposing AWS cost-saving measures; successfully achieved over **36% month-over-month** savings
- Implemented a robust **Jenkins** backup and restore system integrated seamlessly with the **CasC** setup, ensuring the resilience of critical project configurations and build histories

PROJECTS

OCR CNN on an FPGA | *Verilog*
- Developed an Optical Character Recognition (OCR) Convolutional Neural Network on an FPGA using Verilog

Road-Following Robot Simulation | *Python, TensorFlow, ROS2, Gazebo*
- Developed and evaluated an AI-based road-following robot simulation with a CNN trained on 36,000+ images

WesternFlow | *Go, AWS, Docker, React, PostgreSQL, Typescript, MongoDB*
- Designed a course and professor review platform for University of Western Ontario students

Continuous Resume | *Docker, LaTeX, GitHub Actions, Terraform, AWS*
- Designed a **Docker** image and a **GitHub Actions** CD pipeline to deploy a LaTeX file as a pdf to a domain

EDUCATION

Bachelor of Engineering – Computer Engineering   Dec 2025
York University   *Toronto, ON*
    Relevant Courses: Machine Learning, Robotics, Communication Systems, Operating Systems, Systems Engineering