

FIONA ISOBELLE LAYGO

laygo.fiona@gmail.com | fionalaygo.com |  linkedin.com/in/fionalaygo4015 |  github.com/laygofiona

EDUCATION

- **Trent University - Cumulative GPA: 91.50** 2023 - 2027
B.S.c Honors in Computer Science (4 Year Program) Peterborough, Ontario
 - **Co-Director of Hack Trent** - Led a 12-member team to raise \$5,000+ in sponsorships and deliver in-person marketing that attracted 300+ students for a 24h MLH hackathon

EXPERIENCE

- **TD Bank - Software Engineering Intern (Business Systems Analyst)** May 2026 - Present
Python, AI Agents/LLM Engineering, REST APIs, Java, Spring, DevOps Automation Toronto, Ontario
 - Built a **concurrent Python security automation pipeline** integrating GitHub and Veracode APIs to automate daily security scans across **6 enterprise applications**, generating historical analytics and vulnerability reports
 - Modernized a **legacy Java Spring Web application** by migrating JDK 11→17, JBoss EAP 7.4→8, Spring, Hibernate, and **18 DAO implementations** to JPA; reduced application security findings by **88% (113→14)**
 - Engineered a **multi-agent GitHub Copilot workflow** that orchestrated specialized AI agents and custom tools to remediate Veracode vulnerabilities, execute Git workflows, trigger static scans, and generate developer-ready pull requests
 - Optimized **LLM agent** performance by introducing sub-agent orchestration, prompt compaction, and custom tooling, reducing context usage to **140K tokens** while resolving **88 security vulnerabilities** in a single execution
 - Developed a **multithreaded Python automation tool** that processed financial statements asynchronously using NumPy, PyMuPDF, and Tkinter
- **Chérie AI, Inc. - Co-Founder & Software Engineer** Jan 2025 - Present
Python, FastAPI, AWS, NumPy, Docker, Playwright, Pandas, Ollama Peterborough, Ontario
 - Engineered a FastAPI backend on AWS Lambda powering a **computer vision-based product** matching system, scaling to **1.8K total users**
 - **Built an LLM-powered data processing pipeline** using Ollama and Gemma 3 with prompt engineering to extract product insights from descriptions and ingredients
 - **Designed a rule-based recommendation system** that leverages color science and user-specific skin data, utilizing **scikit-image** and **NumPy** for image analysis and color conversions
 - **Built a scalable product ingestion pipeline** that scraped, cleaned, and structured **6k+ beauty products**
- **Meta via MLH - Production Engineering Fellow** June 2025 - Sep 2025
Python (Flask), Docker, Linux, Bash, GitHub Actions, Prometheus, Grafana Remote
 - Engineered a **containerized full-stack Flask application** using Docker, nginx, and MySQL, implementing reverse proxy configuration, SSL certificates, and production deployment workflows
 - Built **CI/CD pipelines and deployment automation tooling** with GitHub Actions and Bash scripts, reducing deployment failures by 25%, accelerating release cycles by 50%, and reducing manual deployment overhead
 - Designed **observability infrastructure** with Prometheus and Grafana for server monitoring and alerting, improving incident response time by 50%
 - Developed automated unit/system testing frameworks and conducted performance benchmarks with Apache Bench (**1,000 concurrent requests**), increasing code coverage to 75% and reducing production bugs by 40%

TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript, C#
- **Backend & AI:** FastAPI, Flask, Spring, REST APIs, LLM Agents, GitHub Copilot, Ollama
- **Infrastructure:** Docker, Linux, AWS Lambda, GitHub Actions, nginx, Prometheus, Grafana
- **Databases & Tools:** PostgreSQL, MySQL, Git, JUnit, Unittest, Playwright