

FIONA ISOBELLE LAYGO

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EDUCATION

- **Trent University - Cumulative GPA: 91.50** 2023 - 2027
B.S.c Honors in Computer Science (3+ Year Program) Peterborough, Canada
 - **Co-Director of Hack Trent** - Led a 12-member team to secure over \$5,000 in sponsorships and execute an in-person marketing strategy that reached over 300 students

EXPERIENCE

- **Chérie AI, Inc. - Co-Founder & Software Engineer** Jan 2025 - Present
Python, FastAPI, AWS, NumPy, Docker, Playwright, Pandas, Ollama Peterborough, Ontario
 - Engineered the backend and recommendation engine for a **web application that recommends makeup products** using Python and FastAPI on AWS Lambda, which grew to **200+ users**
 - **Developed a custom AI model using Ollama based on Gemma 3 and prompt engineering** to analyze product descriptions and ingredients, powering a personalized recommendation engine
 - **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 **5.8K+ beauty products**
- **Meta - Production Engineering Fellow** June 2025 - Sep 2025
Python (Flask), Docker, Linux, Bash, Unittest, Digital Ocean Remote
 - Engineered a **containerized microservices architecture** with Docker, cutting deployment times by 50% and improving resource utilization by 35%
 - Built automated unit and system test frameworks and ran performance benchmarks (1,000 concurrent requests with Apache Bench), **increasing code coverage to 75% and reducing bugs in production by 40%**
 - Developed **deployment tooling and scripts in Bash** to streamline builds, improving developer productivity and shortening release cycles
- **Trent University - Teaching Assistant** Sep 2024 - April 2025
Java, Eclipse, UML with Umple, C# Peterborough, Ontario
 - Supported **80+ students** in mastering Java and C# through real-time debugging, troubleshooting, and code reviews, reinforcing fundamentals of reliable system design

PROJECTS

- **Open-Source Portfolio Web Application** GitHub[🔗]
MySQL, nginx, GitHub Actions, Prometheus, Grafana, certbot
 - Designed and developed an Open-Source portfolio template with full-stack architecture, using **Flask, MySQL and nginx as a reverse proxy with SSL**
 - Implemented **CI/CD pipelines with GitHub Actions**, reducing deployment bugs by 25% and accelerating release cycles by 50%
 - Designed and implemented custom monitoring and alerting solutions for server health using **Prometheus and Grafana, improving incident response time by 50% and enhancing system observability**
- **Net Nanny: An AI-Driven Child Safety Tool | Won best use of Wasp at Elle Hacks 2025** GitHub[🔗]
React, Typescript, Flask, Wasp, Selenium, Docker, Ollama, DeepSeek R1
 - Developed a **browser extension for real-time Instagram DM monitoring** using Selenium to detect cyberbullying and phishing threats
 - Built an AI-powered safety dashboard with DeepSeek R1 for **sentiment analysis; containerized with Docker for scalable deployment**

TECHNICAL SKILLS

- **Languages:** Python, JavaScript (ES6+), Java, C#, PHP 8
- **Frameworks & Libraries:** Flask, FastAPI, React, Node.js, Express.js, Tailwind CSS
- **Databases:** MySQL, PostgreSQL, Supabase
- **Developer Tools:** Git, GitHub Actions, JUnit, Unittest, Playwright
- **DevOps/Infrastructure:** Docker, AWS Lambda, nginx, Bash, Vercel, Digital Ocean