FIONA ISOBELLE LAYGO

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EDUCATION

• **Trent University**   *2023 - 2027*
B.S.c Honors in Computer Science (3+ Year Program)   Peterborough, Canada
  ◦ Cumulative GPA: 91.50

EXPERIENCE

• **Production Engineering Fellow**   *June 2025 - Present*
Meta (via MLH, highly selective program with 2% acceptance rate)   Remote
  ◦ Collaborated with a team to engineer and deploy a multi-component web application on a remote Linux server, **improving response times**
  ◦ Engineered a **containerized microservices architecture** using Docker, separating Flask, MySQL, and NGINX components
  ◦ Developed and executed comprehensive testing strategies, including unit, integration, and system testing, **increasing code coverage and significantly reducing post-deployment issues**
  ◦ **Automated application deployments** by integrating systemd service units with custom Bash scripts, streamlining startup and recovery processes

• **Co-Founder & Software Engineer**   *Jan 2025 - Present*
Chérie AI, Inc.   Peterborough, Ontario
  ◦ Shipped a makeup product recommendation web application using React, TypeScript, Node.js, FastAPI, and AWS based on image-based skin tone detection; **Top 8 Finalist in Innovation Cluster's Level Up Pitch Competition**
  ◦ Implemented **secure user authentication and account management** using Supabase, Node.js, and PostgreSQL with JWT
  ◦ **Scraped and processed 5.8K+ products** via a scalable Python pipeline (FastAPI, Playwright, Docker, cron); **cleaned data with NumPy & Pandas** to improve recommendation algorithm

• **Academic Assistant**   *Sep 2024 - April 2025*
Trent University   Peterborough, Ontario
  ◦ Academic Assistant for courses in **Java (Eclipse, UML with Umple) and C#**; supported 80+ students in labs with real-time guidance and feedback in addition to grading coursework

PROJECTS

• **Portfolio Web Application**
Python (Flask), Docker, MySQL, NGINX, JavaScript   Website[🌐]
  ◦ **Architected and developed a full-stack web application** to showcase personal projects and skills, leveraging Flask for backend, MySQL for data persistence, and responsive front-end design
  ◦ **Implemented RESTful API endpoints for managing timeline posts**, featuring robust CRUD operations and secure, transaction-safe database handling through Peewee ORM
  ◦ **Utilized Peewee ORM to abstract complex SQL queries**, simplifying database interactions and improving development speed, enhancing overall application performance and logic

• **Net Nanny: An AI-Driven Child Safety Tool | Won best use of Wasp at Elle Hacks 2025**
React, Typescript, Flask, Wasp, Selenium, Docker, Ollama, DeepSeek R1   GitHub[◯]
  ◦ Developed a **browser extension for real-time Instagram DM monitoring** using Selenium and Geckodriver to detect cyberbullying and phishing threats
  ◦ Built an AI-powered safety dashboard (React, TypeScript, Flask via Wasp) with DeepSeek R1 for **sentiment analysis; containerized with Docker for scalable deployment**

TECHNICAL SKILLS

• **Languages:** Python, JavaScript (ES6+), Java, C#, PHP 8
• **Frameworks:** React, Node.js, Express.js, Flask, FastAPI, Wasp, Bootstrap, Tailwind CSS
• **Tools:** Git, Vercel, Ollama, JUnit, Unittest, Docker, AWS Serverless, Nginx, Bash
• **Databases:** MySQL, PostgreSQL, Supabase