

# Mathio Masood-Luca

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## EDUCATION

**Bachelor of Science in Computer Science**  
*University Of Windsor, Windsor, Ontario*

2021 - Present

## EXPERIENCE

**Software Developer Intern**  
*CIBC*

May 2024 – Aug 2024  
*London, ON*

- Delivered end-to-end banking features with **Python (Flask)**, **Node.js (Express)**, **React**, and **PostgreSQL**, accelerating internal transaction workflows by 25 %.
- Implemented **AES-256** encryption and role-based access controls, achieving 100 % pass rates on security audits.
- Refactored complex **SQL** queries, cutting average data-retrieval latency by 30 % and lowering DB CPU load.

**Coding Expertise for AI Training (Contract)**  
*Scale Ai*

March 2025  
*Remote*

- Built **FastAPI** micro-services ingesting 10 M+ records/day and **React/Tailwind** dashboards, boosting annotation throughput by 35 %.
- Authored prompt-engineering playbooks adopted by 30+ analysts, raising response accuracy by 20 % and halving onboarding time.
- Conducted 50+ peer code reviews, standardizing **PEP8/ESLint** compliance and reducing post-merge defects by 40 %.

**Freelance FullStack Developer**  
*Shopify Developer*

Aug 2025  
*Remote*

- Deployed scalable e-commerce platforms with **Node.js**, **FastAPI**, and **Stripe/PayPal/Shopify APIs**, processing 1,000+ transactions/month at 99.9 % uptime.
- Automated **CI/CD** with **GitHub Actions** & **Docker**, shrinking release cycles from 3 days to 3 hours and reducing incident MTTR by 45 %.

## PROJECTS

[Pokémon Cloud Trainer](#) | **FastAPI, Python, React, AWS**

- Architected a cloud-native Pokémon battle simulator supporting 10 000+ concurrent matches with sub-50 ms latency, cutting hosting costs 60 % via AWS Fargate micro-services.
- Implemented reinforcement-learning opponents and an Elo ranking system, boosting average session length by 42 %.

[AI-Powered Trading Analytics](#) | **Python, FastAPI, OpenAI API, React**

- Built an NLP web app that analyzes trading markets and generates GPT-4-driven, role-specific bullet points in <2 s, raising trading outcomes 35 %.
- Added JWT auth, Stripe subscriptions, and CI/CD, reaching \$1.2 k MRR within three months.

[3D Molecular Explorer](#) | **Astro, React, Three.js, FastAPI, RDKit, TypeScript, Vercel**

- Developed a browser-based tool that renders molecules up to 100 k atoms at 60 FPS and reduces GPU memory usage 40 % through shader optimization.
- Integrated interactive measurements, real-time force-field simulations, and VR export, now adopted by five university research labs.

## Technical Skills

### Languages

Python, JavaScript, TypeScript, SQL, Markdown, C, C++, Solidity

### Web Technologies

ReactJs, TailwindCSS, Remix, NodeJS, NextJS, JWT, Express.js, HTML5, CSS3, Vite

### Tools & Platforms

Git, GitHub, Vercel, Netlify, Render, Google Cloud, Redis, GitHub Actions, AWS

### Databases

PostgreSQL, MongoDB, MySQL, Prisma ORM

### Design & Prototyping

Figma, Canva