Marium Ashraf

Phone: (437) 220-1426 • E-mail: mariumashraf.MA@gmail.com • LinkedIn • Website • Github

EDUCATION

Bachelor of Computer Engineering, Toronto Metropolitan University, Major in **Software Engineering**

TECHNICAL SKILLS

Languages & Scripting: Python, JavaScript/TypeScript, Java, SQL, Bash, REST APIs
Frameworks & Libraries: FastAPI, Node.js, Express, React, D3.js, Material UI, Spring Boot (basic)
DevOps & Infrastructure: Docker, GitHub Actions, CI/CD, AWS Lambda, Linux CLI, Vercel, Netlify
Databases: PostgreSQL, MongoDB, NoSQL
Automation & Monitoring: Zapier, Slack API, Google Apps Script, Postman, Locust, k6
AI & Data: GPT-4, Hugging Face, Prompt Engineering, A/B Testing, pandas, scikit-learn
Testing & Docs: Unit Testing (Pytest, Jest, RTL), API Docs, Markdown, Jira, Confluence
Productivity Tools: Intercom, Notion, Stripe API, Excel, Custom CRMs

RELEVANT EXPERIENCE

Software Engineering Projects, Toronto - *Software Engineer*   *Sept 2021 - Present*
- Developed and deployed scalable full stack applications using FastAPI, Node.js, and PostgreSQL, with RESTful APIs and CI/CD pipelines that reflect real-world client deployment environments.
- Built a high performance cell growth simulation tool in React and D3.js, handling 100K+ DOM elements at under 100ms latency through performance tuning and memoization strategies.
- Designed a secure, multi user Robo Advisor API with FastAPI, JWT authentication, and AWS Lambda, featuring dynamic portfolio simulations and modular business logic.

Prompt and AI Engineer, Toronto - *Outlier*   *Nov 2023-Present*
-Deployed 100+ LLM prompt pipelines using GPT-4 and Hugging Face across education, finance, and policy domains, embedding feedback loops and safety logic to improve system alignment.
-Reduced debugging cycles by 60% using rubric based evaluations, A/B testing, and custom pandas dashboards, directly contributing to prompt quality benchmarks and roadmap input.
- Collaborated with product and infrastructure teams to translate user goals into prompt workflows, increasing feature adoption by 30% across pilot partners.

Web Developer Intern, Toronto - *While She is True*   *Jan 2024-Apr 2025*
- Delivered backend and frontend features for a Stripe-integrated donation system and authenticated classroom portal using React, PostgreSQL, and MongoDB in a production-grade environment.
- Resolved hydration and async rendering issues in React frontend logic, improving platform stability by 35% and decreasing UI regression bugs across two sprints.
- Built 25+ Jest and React Testing Library cases to improve QA automation coverage and reduce manual testing load during weekly deployments.

Operations Automation Intern,Toronto — *Lyrata Inc*   *Jun 2025 – July 2025*
- Engineered Slack API and Python-based tools for automating onboarding, SOP lookups, and delivery scheduling, reducing manual task overhead by 50% across two greenhouse facilities.
- Deployed AI agents using GPT-4 and Claude to simulate edge-device logic for watering, seed prep, and inventory tasks, built with human-in-the-loop safety and override systems.
- Translated technician feedback into modular logic flows and dynamic triggers, expanding automation coverage to four core workflows across the team.

Customer Relationship Agent – *Miratel Solutions,*   *Apr 2023 – May 2025*
- Managed 3,000+ donor conversations across enterprise fundraising campaigns, exceeding donation targets by 25%+ and directly contributing $100K+ in revenue.
- Identified early dropout patterns through call data analysis and rewrote objection-handling flows, reducing churn by 18% and boosting pledge success by 15%.
- Reported campaign insights and donor behavior trends to strategy leads, resulting in revised scripts and a 20% increase in engagement from key audiences.