Marium Ashraf

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

---

EDUCATION

Bachelor of Computer Engineering (Software Engineering)**,** Toronto Metropolitan University

TECHNICAL SKILLS

Languages & Frameworks: Java, Spring, JavaScript/TypeScript, React, Python (pandas, scikit-learn), R
Databases: SQL, PostgreSQL, MongoDB, NoSQL, BigQuery
APIs & Integration: REST, JSON, Microservices, RabbitMQ, gRPC, Docker
Cloud & DevOps: AWS, GCP (Airflow, Dataflow, Pub/Sub), CI/CD, Git/GitHub, Jira
Data & Analytics: ETL, Data Modeling, Streaming Systems, Experimentation Design
Testing & QA: Jest/RTL, Automated Test Suites, A/B Testing, Monitoring & Observability
Other: Distributed Systems, NLP, Scalability Engineering, Agile/Scrum

RELEVANT EXPERIENCE

AI Developer, Lyrata (via DarMoD Program with Vector Institute)   *Jan 2025 – Aug 2025*
- Architected a distributed data warehouse and ETL pipeline in Java and Python, centralizing Slack logs, Excel records, and SOP documentation into a SQL-backed reporting system that eliminated manual reconciliation and reduced processing time by 40%.
- Engineered a containerized Slack automation microservice with full API validation, persistence, and failure recovery, replacing error in workflows with a scalable system that improved data integrity by 40%.
- Designed and deployed a GPT SOP retrieval engine with REST API access, allowing operators to query 200+ documents programmatically, cutting onboarding time by 50%
- Produced technical architecture blueprints, deployment scripts, and fault-tolerance strategies, enabling site rollout of predictive analytics tools and raising departmental efficiency by 30%.

Prompt & AI Engineer, Outlier   *Nov 2022 – July 2025*
- Developed over 100 microservice style LLM pipelines with automated rubric scoring and anomaly detection, scaling evaluation workflows to millions of daily queries and boosting models by 35%.
- Created a centralized SQL-backed analytics platform with real-time dashboards and automated monitoring, shrinking debugging cycles by 60% and accelerating production deployments.
- Led architectural refactors of distributed inference infrastructure, optimizing container orchestration, load balancing, and caching mechanisms to improve latency and reliability under heavy production.
- Translated business level objectives into technical specs for cross-functional teams, introducing standardized workflows that accelerated feature delivery timelines by 30% improved adoption.

Web Developer, While She is True   *Jan 2022 – Dec 2023*
- Built and optimized a Stripe integrated payment platform and secure classroom portal, implementing backend authentication and SQL driven workflows that improved payment success rates and system reliability by 40%.
- Resolved complex async rendering and hydration failures in React dashboards, using performance profiling and targeted optimizations to raise uptime by 35% and improve user experience.
- Implemented automated QA pipelines with 25+ Jest/RTL tests covering critical APIs and data flows, reducing regression risk by 50% and enabling faster, safer release cycles.
- Managed full lifecycle deployment of client-facing applications, including system hardening, CI/CD pipelines, and secure authentication workflows, resulting in highly available production environments.