

Aly Saleh

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Education

McGill University | GPA 3.77 | Distinction

Bachelor of Arts, Computer Science Major
Statistics and Supplementary Computer Science Minors

09/2020 – 12/2023
Montreal, Canada

- **Relevant Courses:** Distributed Systems, Computer Systems, Operating Systems, Database Systems, Software Design, Data Science, Applied Machine Learning, Artificial Intelligence
- **Awards and Certifications:** Monitoring and Observability for Application Developers [🔗](#), Dean's Honour List 2021, McHacks Accessibility Prize, McHacks Forward Thinking Prize

Experience

Morgan Stanley | Software Developer

- Helped **7 teams** across the risk department in integrating application monitoring tools such as Prometheus, Grafana, and OpenTelemetry, enabling better performance insights and issue detection.
- Modernized communication between 9 risk systems by replacing REST API calls with a **Kafka** cluster, enhancing scalability and system reliability.
- Used **Angular** to display real-time information used by risk managers.
- Implemented an alerting system using **PagerDuty** and **OpenTelemetry** that detects latency spikes in my team's application, helping in identifying issues before they impact users.
- Designed a **Grafana** dashboard for measuring the application's responsiveness and health by displaying 16 different metrics, identifying performance bottlenecks.
- Used **Java** to optimize a Spring Boot application's database saving functionality by reducing data size by 15% while preserving full information integrity.

02/2024 – present
Montreal, Canada

Morgan Stanley | Software Developer Intern

- Designed and implemented a program that automatically configures and launches **Prometheus** and **Grafana** when an application is launched, collecting 75+ metrics.
- Selected among 15 out of 70 interns to demo my project in Morgan Stanley's annual technology fair.

05/2023 – 08/2023
Montreal, Canada

LIDD Consultants | Software Developer Intern

- Utilized Postman for testing REST API calls for a Warehouse Management System Integration.
- Designed solutions for clients using **JavaScript** to add functionalities to Oracle's NetSuite.

01/2023 – 04/2023
Montreal, Canada

LIDD Consultants | Software Developer Intern

- Used **Python** to write integration tests that identified silent errors that would have resulted in lost orders, preventing potential revenue loss for the client company.
- Implemented the request structure for a SOAP integration that is used by **NetSuite** for a company valued at \$50M+.
- Provided training for employees that come from a non-technical background.

05/2022 – 08/2022
Montreal, Canada

Tova Designs | Marketing Analyst Intern

- Used **Python** to analyze and visualize ads data resulting in a 50% decrease in the cost per engagement for online ads.

06/2021 – 08/2021
Remote

Skills

Languages: Java, Python, C, SQL, TypeScript, JavaScript, C#, Scala, Ocaml, R, HTML, CSS

Technologies & Frameworks: Grafana, Prometheus, OpenTelemetry, Kafka, ZooKeeper, Kubernetes, GraphQL, Jenkins, Spring Boot, Flask, Angular, AWS EC2, REST API, Neo4j, MongoDB, Hadoop

Projects

Monte Carlo AI Bot | Python [🔗](#)

- Designed a game-playing agent that uses Pure Monte Carlo Search and Minimax to create simulations to decide the best next move against an adversarial agent.

Leadership

Hack McGill | Sponsorship Coordinator

- Raised \$10,000+ for McHacks, McGill's largest hackathon with 400+ attendees, via sponsors.

04/2023 – 02/2024
Montreal, Canada

Computer Science Undergraduate Society | Juniors/Seniors Representative

- Represented 300+ students. Organized academic events that allowed students to discuss research opportunities with professors.

06/2022 – 05/2023
Montreal, Canada