

Zakaria El Manar El Bouanani

elmanarz@hotmail.com ◇ zakaria-elmanar.com ◇ [LinkedIn](#) ◇ [GitHub](#)

Experience

Intact Financial Corp.

Sep 2024 – Dec 2024

Software Engineer Intern (Mobile API)

Montreal, QC

- Refactored core application into Hexagonal Architecture, improving testability and **reducing** module coupling **by 60%**, allowing faster feature development and cleaner code separation.
- Optimized a sequence of API calls by implementing event-driven processing with Kafka, **reducing** overall user **latency** from **6 seconds** to under **2 seconds**.
- Created real-time dashboards in Datadog to monitor main services, providing performance insights and quick detection of bottlenecks during new feature development.

Intact Financial Corp.

May 2024 – Aug 2024

DevOps Engineer Intern (Internal Tools)

Montreal, QC

- **Reduced** CI/CD pipeline execution **time by 50%** by parallelizing independent stages and caching Maven dependencies using a shared volume across runs.
- Resolved **27+** security vulnerabilities and outdated maven dependencies across several repositories, strengthening overall application security.
- Built reusable Groovy scripts in Jenkins Shared Libraries to reduce CI/CD code duplication across teams.

Ecksand

Sep 2022 – May 2023

Full-Stack Developer Intern (Internal Tools)

Montreal, QC

- **Optimized** large diamond data **SQL queries** by implementing pagination and image compression **reducing** load on fronted and querying time **by ~4 seconds**.
- Built a Python web scraper with Selenium, integrated into a Django app to fetch and filter **1,000+ diamond records** weekly, **reducing** manual selection time **from 1 week to 1 day**.

Project

[Quolance](#)

Sep 2024 – April 2023

- Led a team of 11 students to build a web-based freelancer marketplace, applying Scrum practices and thoroughly documenting our agile development process.
- Deployed the application on Oracle Cloud Infrastructure with a custom domain and secured HTTPS connection using **TLS certificates**.
- Implemented CI/CD pipelines with GitHub Actions, using GitHub Secrets and AES-256 encryption to securely manage environment variables.

Education

Concordia University

2021 – Present

BEng in Software Engineering

Montreal, QC

- Co-Founder & VP at Concordia's Google Developer Group and member of Space Concordia.

Technical Skills

- Languages: Java, Kotlin, Python, SQL, Bash, Javascript/HTML/CSS, C++, Go, Ruby
- Frameworks & Libraries: Spring, Node.js, Vue.js, Express.js, Django, Ruby on Rails
- Tools: Git, Linux, Docker, AWS(DynamoDB, Kinesis, S3, EC2), Gradle/Maven, Jira, Jenkins, Oracle Cloud, Datadog