

SHADI MARZOUK

Software Engineering Intern

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Summary of Skills & Qualifications

Operating Systems: Windows · Linux · macOS · iOS · Android

Applications: Jira · Selenium · Cypress · Jenkins · Confluence · Monday · GitHub · Docker · Azure · Slack · Power BI · Microsoft Office

Programming: JAVA · JavaScript · C++ · C · React · Python · Node.js · PHP · HTML · Tailwind · CSS · SQL · NoSQL · Visual Basic · .NET

Methodologies: Agile · Scrum · Waterfall · Extreme Programming · Kanban · Iterative

Other Skills:

Object-oriented Programming · Data Structures · CI/CD · Automated Testing · RDBMS · Design Patterns · Software Architecture · Cross-functional Teamwork · Attention to Detail · Problem-solving · Management and Organization · Adaptable · Technical Writing · Ownership and Accountability · Stakeholder Communication · Prioritization · Working Under Pressure · Leadership · Customer Service · Creativity · Self-motivated · Communication

Languages

English Native ●●●●●

Arabic Native ●●●●●

French Intermediate ●●●●●

Certifications

Certified in Cybersecurity (CC) — ISC2

Certified Scrum Master (CSM) — Scrum Alliance

Certified Scrum Developer (CSD) — Scrum Alliance

Basic Life Support (BLS) — American Health Association

Valid Driving Permit

Education

Concordia University Montreal, QC, Canada
Bachelor of Engineering - Software Engineering C. Edge 09/2023 - 04/2027

Concordia University Montreal, QC, Canada
Bachelor of Science - Athletic Therapy 09/2015 - 04/2021

Professional Experience

NMDC Energy Abu Dhabi, United Arab Emirates
Software Engineer Intern 05/2025 - 08/2025

- Developed and maintained web and Windows applications using Visual Studio .NET, TFS
- Built and managed SQL Server databases, defining schemas, tables, and relational structures
- Incorporated front-end and back-end components through ADO.NET, executing robust CRUD operations
- Created interactive web applications with robust data validation and user-friendly forms
- Implemented stored procedures, views, and database functions for optimized performance
- Applied foundational project management methodologies and documented processes for system development
- Produced interactive dashboards and data visualizations using Power BI, SSIS, and SSAS

Keywords Studios Ltd - Ubisoft Montreal, QC, Canada
Software Development Tester 02/2022 - 04/2023

- Accelerated release cycle by 30% through automation with Selenium and Cypress, minimizing manual testing
- Decreased post-release defects by 25% through detailed test plans and case design
- Managed bug tracking via Jira for clear, efficient issue resolution
- Collaborated closely with developers to rapidly troubleshoot and resolve complex issues
- Led regression testing, driving QA improvements and enhancing software quality
- Facilitated daily stand-ups and retrospectives, streamlining QA workflows and cross-team collaboration

Professional Experience

Marzouk and Sons Inc

Montreal, QC, Canada

Operations Associate

05/2020 - 08/2022

- Oversaw daily operations and company management
- Developed and implemented business growth strategies
- Negotiated and finalized commercial leasing agreements
- Ensured compliance with real estate laws and regulations
- Managed adherence to local, provincial, and federal legal standards

Notable Projects

Concordia Campus Guide

01/2026 - 04/2026

Built an Android campus navigation app in Kotlin with Jetpack Compose, integrating Google Maps and Google Routes API v2 for multi-modal directions (walking, driving, transit).

- Implemented MVVM architecture with a repository pattern, GeoJSON-based building overlays for 60+ buildings, and a fuzzy search service across building codes, names, and addresses.
- - Integrated Concordia's student schedule API to fetch course data and route users to their next class location on campus
- Built a real-time shuttle tracker with day-aware schedule logic.
- Designed an accessibility layer (DataStore-backed preferences for text size, contrast, and color-blind modes) propagated app-wide via Jetpack Compose composition locals.
- Achieved approximately 70% unit test coverage using JUnit 5, Robolectric, Mockito, and MockWebServer; wired into a CI/CD pipeline with GitHub Actions and SonarQube.

SeatMaster

01/2026 - 04/2026

A cloud-based event ticket reservation Android application with role-based access control for customers and administrators, developed as part of a software engineering course.

- Built with Java and Android SDK using a single-activity, fragment-based architecture with AndroidX Navigation and Material Design 3 components.
- Integrated Firebase Authentication and Cloud Firestore for secure user registration, login, and role-based access (Customer/Admin).
- Implemented the Repository pattern to abstract data sources, supporting both mock data and live Firebase backend.
- Established a CI/CD pipeline with GitHub Actions automating lint checks, unit tests (JUnit 5), code coverage (JaCoCo), and APK builds on every push/PR.
- Enforced code quality with SonarCloud static analysis and maintained test coverage across models, repositories, and adapters.

Full-Stack Bike Sharing Platform

09/2025 - 12/2025

Developed a comprehensive bike sharing application using Java Spring Boot for the backend and React for the frontend, enabling users to rent and return bikes at various stations with real-time updates via Web Socket integration.

- Developed auth system for rider/operator roles. Enabled secure login, registration, and role-based dashboard access.
- Designed a bike management system (BMS) utilizing the state pattern for bike lifecycle management (available, reserved, on trip, maintenance), with operator controls for station activation, bike maintenance, and dock monitoring.
- Created a dynamic pricing system employing the strategy pattern, offering differentiated rates for standard and e-bikes, alongside loyalty discounts based on user tiers (Bronze, Silver, Gold) to enhance user engagement.
- Built a loyalty program featuring flex dollars rewards for returning bikes to low-occupancy stations, promoting balanced bike distribution and system efficiency.
- Developed a responsive user interface with an interactive map powered by Leaflet, reservation timers, trip history tracking, billing management, and operator tools for adding bikes and impersonating users.

Business Vehicle Management System

05/2025 - 08/2025

Developed a VB.NET Windows Forms app with an SQL Server to efficiently manage vehicle and driver data through intuitive UI, robust validation, and optimized database interactions.

- Designed and developed a Windows Forms application using VB.NET and .NET Framework.
- Integrated Microsoft SQL Server to manage vehicle and driver records efficiently. Implemented features such as data entry, editing, validation, and record searching.
- Ensured a user-friendly interface with proper form controls and error handling.
- Enhanced system reliability by incorporating data validation and exception handling.
- Demonstrated knowledge of CRUD operations, ADO.NET, and multi-form navigation.

Interests

Sports: Skiing · Tennis · Golf · Motorsports

Passions: Technology · Cars · Motorcycles · Airplanes · Travel