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Work Experiences

Android Mobile Developer

2023 to now

Business Development Bank of Canada, Montreal

- Migrated the database from Room to SQLDelight to facilitate the integration of Kotlin Multiplatform (KMP).
- Introduced Kotlin Multiplatform to unify the codebase for Android and iOS applications, specifically for API calls

iOS Mobile Developer

2021 to 2023

Business Development Bank of Canada, Montreal

Project: Designing user interfaces for acquiring \$100,000 loans

- Improved thread management and backend calls: Implemented advanced techniques such as Async/Await to optimize thread management and synchronization of backend calls.
- Designing user interfaces: creating intuitive and effective user interfaces for an application aimed at Quebec's entrepreneurial clientele, with an emphasis on ease of use and accessibility
- Migrating to advanced technologies: transition from UIKit to SwiftUI, modernizing application architecture and improving their performance
- Optimize the CD/CI pipeline: Improved the efficiency and speed of the development workflow, reducing application deployment time by 20% through the use of Bash and YAML.
- Integrating new techniques to optimize development: Led a project to integrate tools like SwiftFormat and Inject into the development workflow. This initiative automated code standardization and facilitated real-time testing of changes, significantly accelerating the development cycle of iOS applications

IT Technician

2021

Ministry of Transport of Quebec, Montreal

Project: Support for the preparation and implementation of road projects

- Design automated reports with SSRS tools
- Perform functional and integrated tests to ensure that the modifications meet the expressed needs
- Export support files needed to disseminate new surveying standards

IT Technician

2019 to 2020

Normal Studio, Montreal

Project: Design of a plug-in for the Deadline software

- Design applications to optimize existing systems
- Implement a plugin for Deadline software in Python language
- Configure workstations by performing updates with Acronis Snap Deployed

Academic

Bachelor of Software Engineering 2023

École de technologie supérieure (ETS), Montreal

Final year project: Securing PDF documents via steganography, by embedding unique identifiers in typographic fonts and using AI to detect font modifications.

Tools used: Python, Scikit-learn (AI), FontForge (TTF), Docker, Jira.

College diploma in management information technology 2019

Ahuntsic College, Montreal

Final year project: Development of an Android mobile application for carpooling, with route optimization and integration of scheduled stops.

Tools used: Android Studio, Gradle, Google Route API, Google Maps SDK, MongoDB.

Skills

Programming languages

iOS: Swift, SwiftUI, UIKit

Android: Kotlin, XML

Web: TypeScript, JavaScript

Machine Learning: Python

Databases

Firebase, MongoDB, SQLite

Development methodology

Agile, Scrum, Kanban, Sprints

Versioning tools and interface

Git, Azure Devops, GitHub, Jira

IDE

Visual Studio Code, Xcode, Android Studio

Continuous Improvement

DevFest - Google 2024

Concordia University Conference Center, Montreal

Learning techniques to enhance mobile app performance, implement secure multi-platform logins, and build ML-powered Android and cross-platform apps with Flutter.

CloudNative & AI Devfest – Google 2019

École de technologie supérieure, Montreal

Google Community Building and Technology Learning Conference

Google Debug 2019

École de technologie supérieure, Montreal

Google Conference on Bugs and How to Deal with Them

Academic Involvement

AppleTS mobile development, co-captain 2020 to 2021

- Create the ÉTS mobile application is used by more than 15,000 users

Technical and Strategic Entrepreneurship Network 2020

- Provide support to ÉTS students who are interested in the entrepreneurial world