

Adolfo David Romero

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TECHNICAL SKILLS

Languages: SQL, Python, Java, C#, JavaScript, HTML/CSS, Swift, Kotlin, C/C++
Databases: MySQL, PostgreSQL, Firebase Realtime DB, Firestore, Core Data
Cloud Platforms: Google Cloud, Microsoft Azure, AWS, Firebase
Frameworks: Node.js, Spring Boot, .NET MAUI, React Native, Expo
DevOps & Tools: Git, Docker, VS Code, IntelliJ, Visual Studio, XCode, Android Studio
Libraries & Analytics: Pandas, NumPy, Matplotlib, TensorFlow/TensorFlow Lite, Core Motion

EDUCATION

Sheridan College Oakville, ON
Honours Bachelor of Computer Science, specialization in Mobile Computing Sept. 2019 – Apr. 2025
• Minor in Creativity & Creative Problem Solving

EXPERIENCE

Application Developer & Student Research Assistant Sept. 2024 – Mar. 2025
Generator Research at Sheridan Brampton, ON
• Engineered a dual Android app system for the “Seniors Digital Smart Health Assistant,” enabling real-time data sharing and health notifications for elderly users.
• Referenced app architecture contributed to successful system commercialization, supporting future manufacturing use cases.
• Designed and deployed cloud infrastructure achieving 99%+ accuracy in syncing smartwatch data with mobile applications.

Mobile Application Developer (Co-op) Jan. 2024 – Aug 2024
PointClickCare Oakville, ON
• Developed a cloud-based mHealth platform to enhance remote patient monitoring efficiency for older adults.
• Secured a strategic consultation with Google by proactively reaching out for specialized wearable development resources, resulting in a 20% increase in production efficiency for the project.
• Leveraged native AndroidOS, WearOS, and React Native to build responsive mobile and wearable solutions.
• Integrated ML-driven location classification features using Google Maps API, optimizing real-time patient context.

PROJECTS

Groovify 🎧 🎵 | *REST API, Swift, iOS, Firebase, Core Data, Git* Sept 2024 – Dec. 2024
• Created an iOS app that generates music recommendations by integrating Spotify and Ticketmaster APIs.
• Designed and deployed a mood-based playlist engine using Spotify’s SDK, aligning with user preferences.
• Added location-based concert alerts via Ticketmaster API, increasing user engagement with nearby events.
• Developed a clean, intuitive UI with Swift, UIKit, and WidgetKit, including homescreen widgets for easy access.

Golf Swing Training 🏌️ 🎯 | *Swift, Firebase, ARKit, Core Motion, Git* Sept. 2023 – Dec. 2024
• Built an iOS + watchOS golf training app combining ML, motion data, and 3D visualization to improve player performance.
• Integrated WatchOS sensors for real-time swing capture, enhancing motion analysis and feedback accuracy.
• Applied a custom ML model (SwingNet) to classify swings and deliver targeted feedback, improving training outcomes.

VOLUNTEERING, INTERESTS, & ADDITIONAL SKILLS

BearHacks Hackathon Mentor: Mar. 28th - Mar. 30th, 2025.
MLH Hackville Hackathon Mentor: Jan. 17th - Jan 19th, 2025.
Google Developer Student Club Volunteer: Jan. 2022 – Jan. 2023.
Recognized Research: Nominated for the 2024 *Innovation in Research* award by The Center for Applied AI (CAAI).
Music & Performance: Composed music for TAAFI nominated animated film.
Bi-Lingual: Native in English & Fluent in Spanish.