

# Jay Jahanzad

Passionate software engineer focused on bringing ideas to life with experience in ML, full-stack, and mobile development.

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## Relevant Experience

Machine Learning Engineer - Team Lead, **CIBC** July 2023 - Present

Sr. Application Developer Mar 2022 - July 2023

Application Developer April 2020 - Mar 2022

Developer Co-op May 2019 - April 2020

- Led development of ML-powered solutions including RAG systems with custom chunking, prompt engineering, and architecture design using open-source models (LLaMA, Mistral, Granite) and LangChain/LangGraph; benchmarked embedding models and retrieval strategies like MMR.
- Deployed and optimized LLaMA models on OpenShift using vLLM and RHOAI, building scalable inference pipelines and integrating with vector stores (Qdrant)
- Translated legacy COBOL into Angular frontends and business logic using LLM-based tooling; designed modernization workflows across backend and UI layers.
- Built full-stack platforms and event-driven systems with Java, Quarkus, and Solace PubSub+, focusing on token management, CIAM, and API ecosystems, deployed on OpenShift and Azure.
- Collaborated across business units to align ML initiatives and backend systems, leveraging Databricks, Jenkins, and GitHub Actions for data processing and DevOps.

iOS Engineer, **Train Fitness Startup** Jan 2024 - July 2024

- Contributed as 1 of 5 iOS engineers to an AI-powered iOS and watchOS workout app, published to the App Store and generating revenue, with key features like Heart Rate Zones and Muscle Recovery
- Worked with Swift, SwiftUI, Combine, and advanced MVVM architecture, integrating network services such as third-party authentication, async operations, REST API calls, and local data persistence using Core Data and User Defaults.
- Collaborated closely with the design team to ensure seamless UI/UX, building and maintaining the app's design system using Atomic Design Pattern, including Dark Mode, Typography, and Asset Management.
- Conducted end-to-end QA, including unit, domain, and view layer testing

Software Engineer, **iReal.AI Startup** Apr 2018 - July 2019

- Developed a real estate web app using Angular and TypeScript, deployed on Firebase/Firestore for real-time data management.
- Used Google LLM libraries to create AI powered assistant for real estate appraisals
- Attended industry conferences like Collision in Toronto to network and enhance the app's visibility.

Technical Specialist, **Apple Inc.** June 2017 - May 2019

- Worked at the Genius Bar to help diagnose and solve issues with iOS, macOS, and watchOS issues
- Hardware fixes on devices and tests done to ensure Apple device was functioning properly

## Skills

### Programming Languages

Python, Java, Swift, JavaScript, TypeScript, SQL

### Libraries & Frameworks

LangChain, Springboot, Quarkus, React, Angular, Gatsby, React Native, Tailwind

### Tools & Platforms

Git, NPM, Docker, Azure, Firebase, Openshift, Postgres, Xcode, Figma, Adobe Suite

## Projects & Contracts

### Resumai

Fullstack AI/ML based app that analyzes large numbers of resumes, outputs best candidates, and creates custom interview content

### Orden

React, Prisma, Cypress stack for web application that is designed to be a marketplace for loaners + borrowers to find optimal loan rates

### NEO-ML

NASA Open Source contribution using NEOs API data to fine-tune open-source HuggingFace model to measure NEO data + create predictions

## Education

### Toronto Metropolitan University

Bachelor's of Computer Science with Honours  
Undergraduate Thesis in Computer Vision + ML

## Interests

Piano, hockey, soccer, astrophysics, science fiction novels