

# Mayank Mehra

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## Education

### University of Waterloo

Expected Graduation: Apr 2026

Bachelor of Computer Science (Co-op) BCS

GPA: 3.8

Relevant Coursework: Data Structures & Algorithms, Operating Systems, OOP, Intro to ML & AI, Compilers, Distributed Systems

Extracurriculars: [Class Profile](#) Project Manager | UW CS Club, Sponsorship Coordinator | [TOHacks](#), Mentor | [Canada Learning Code](#)

## Skills

**Languages** Python, TypeScript, Javascript, Swift, C++, C, Kotlin, Go, SQL, Dart, Java

**Technologies/Frameworks** Nextjs, Angular, SwiftUI, NestJs, Express, Nodejs, PyTorch, Flutter, PySpark, Scikit-learn, Pandas, OpenCV, NumPy

**Tools** Azure, AWS, Docker, Gradle, Bash, AirFlow, Jenkins, Postman, Cypress, Jest, ELK, Datadog, Snowflake, Git

## Experience

### Software Engineer | Faire | Toronto, ON

May 2024 — Expected End: Aug 2024

- Redesigned and migrated the Cart and Checkout experience to new architecture in SwiftUI for [Retailer iOS app](#) that introduces 700,000+ retailers to shop over 100,000 independent brands
- Improved cart endpoints efficiency through query optimizations with Kotlin and Datadog, reducing p95 latency by 30%.
- Led A/B experiments to improve shipping cost estimate endpoints and mobile integration causing a 1% GMV increase
- Implemented analytics logging and deep link support for iOS apps via an internal developer tool built with SwiftUI using Network, Combine, and Multipeer libraries, simplifying developer debugging and app navigation

### Full Stack & Data Engineer | RBC — Investor Services | Toronto, ON

Aug 2023 — Apr 2024

- Spearheaded the end-to-end development for [RBC One](#)'s permissioning portal with Angular, managing 2000+ clients access to their investment portfolio data
- Developed and maintained RESTful APIs for user and admin portal, implementing business logic, CRUD operations, pagination, and search functionalities with NestJS, TypeORM, and TypeScript
- Built test suites with functional, unit, and penetration testing, achieving 95% coverage with Jest, Cypress, and Postman
- Designed DAGs with Apache Airflow, PySpark, Pandas, and S3 to orchestrate parameter-driven ETL workflows, reducing data processing time by 60%

### Software Engineer | Radish | Montreal, QC

Jan 2023 — May 2023

- Designed microservices with Express.js, Node.js, and Docker on Azure to efficiently handle various requests, including Wix webhooks, enhancing system scalability and performance
- Spearheaded a new iOS app built using SwiftUI and a CLEAN architecture to facilitate order operations for 15+ delivery drivers, increasing driver efficiency by 35% and reducing order delivery times
- Deployed a serverless OCR app for text recognition using Python, Express.js, OpenCV, Pytesseract, and Azure Functions
- Published a [document scanner iOS framework](#) using AVFoundation, Vision, and SwiftUI enabling automatic detection, scanning, and cropping of documents with high precision

### Full Stack & Mobile Developer | UGO — TD Bank | Toronto, ON

May 2022 — Aug 2022

- Implemented a responsive cart order flow for a [Cineplex Gift Card Portal](#) using Angular, significantly enhancing the client experience and driving monthly revenue exceeding \$50,000
- Designed an iOS property search app with Swift and MapKit, featuring location-based search and map data rendering
- Developed Jenkins pipeline with Python and Fastlane to automate UI screenshots for iOS apps during builds, reducing weekly QA time by 5-8 hours. Presented to the infrastructure team to improve future CI/CD pipeline efficiency.

## Projects

### ScribeMe | Sentiment Analysis Web App 🧠

- Implemented a sentiment analysis journaling app using NextJS, Prisma, Langchain, and OpenAI APIs allowing users to track, question, and understand their journal entries over time.

### Chess | C++ Object Oriented Programming Project 🧠

- Designed a Chess game in C++ with both text-based and graphical interfaces, utilizing OOP principles and design patterns like Observer, Strategy, and MVC.

### UniFinder | Hack The North 🧠

- Developed a Flutter app using Firebase Rest APIs that helps university applicants stay updated with news, programs, and application schedules for all universities on one platform.

### NFTMint | Web3 Proof of Concept 🚀

- Built a Minting app that simplifies NFT creation for users, with an Express microservice that handles ERC-721 contract generation and the minting process using Ethers, Hardhat, and Solidity on the Polygon Testnet.