

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.