Noah Mifsud-Lattari

DUAL CITIZEN (CANADA & USA) | COMPUTER SCIENCE GRADUATE

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Experience

Wealthsimple | Software Engineer II   *Toronto, ON* | *Nov 2023 – Oct 2025*
- Led the end-to-end build of the new Average Balance report by developing a Rails backend API, an Airflow DAG that queries Redshift via SQL, and a custom PySpark job to aggregate financial data for PDF generation, used by thousands of clients monthly.
- Developed internal tools by integrating React/TypeScript UIs with Rails backends to allow support agents to preview, download, and bulk-generate tax PDFs and XML files, replacing many on-call requests to eliminate hours of manual document generation.
- Overhauled a major fee-reporting pipeline by refactoring Python Spark jobs to support multi-currency transactions, improving the accuracy of USD/CAD financial calculations and reducing downstream reporting issues across multiple tax documents.
- Delivered automated FHSA tax-form generation by extending backend logic and data-processing workflows, collaborating with tax and regulatory teams, and validating outputs with the CRA to ensure compliant PDFs for thousands of clients each tax season.

Faire | Software Engineer II   *Toronto, ON* | *May 2022 – Oct 2023*
- Spearheaded a cross-functional project as lead engineer to develop new mobile push notifications for retailers, while also creating and maintaining Mode dashboards to update product with analytics throughout, resulting in a 2% global GMV increase.
- Co-led the design and implementation of the new "Communications Planner" service with two other engineers to process and schedule all new push-notifications at optimal send times using machine learning data parsed from Amazon DynamoDB.
- Strategically optimized an SQL table index, reducing large table scans by 40%, significantly boosting query execution speed.
- Coordinated with the design team to plan and develop new marketing emails in Kotlin, resulting in a 1.3% increase in click rate.

Shopify | Software Engineer   *Toronto, ON* | *May 2021 – May 2022*
- Re-wrote critical billing subscription classes and background jobs in Ruby on Rails to reliably support multi-currency merchant payments via integrated GraphQL APIs, directly contributing to a measurable 5% Shopify Plus subscription increase in Europe.
- Coordinated with the finance team to implement country specific tax rules within Rails classes to be used during invoice creation.
- Designed GraphQL handlers & mutations that allow merchants to change their settings on how they will be billed monthly.

TMU Department of Computer Science | Teaching Assistant (2 terms)   *Toronto, ON* | *Jan 2019 – Apr 2021*
- CPS 125 - Intro to Programming for Engineers: Taught low-level C++ programming concepts lessons to 30+ students weekly.
- CPS 209 - Computer Science II: Lead and marked Java/Object-Oriented-Programming labs & assignments to 90+ students weekly.

Tesla | Software Engineer Intern   *Palo Alto, CA* | *Sept 2020 – Dec 2020*
- Created an internal website using Node.js and React.js to dynamically present dependencies of Tesla Model Y parts. Integrated with Tableau's API, this tool served as a critical visual aid for hundreds of in-house factory engineers, enhancing workflow.

Amazon | Software Development Engineer Intern   *Toronto, ON* | *Feb 2020 - May 2020*
- Led development of an Amazon Alexa Skill with C++ and Java that lives on the device's onboard memory to help thousands of users troubleshoot internet connectivity issues by parsing and translating external JSON responses from different internal APIs.

Royal Bank of Canada | Software Developer Intern   *Toronto, ON* | *Sep 2019 - Dec 2019*
- Engineered efficient fixes to Java bugs in the back-end for external vendors, accelerating the development pipeline by 25%.

LiTrans.ca | Research Assistant   *Toronto, ON* | *May 2018 - Sept 2018*
- Supervised by Dr. Farooq to develop, test, and prototype a carbon emissions tracking mobile application with Swift and AWS.

Extracurriculars

TMU Tri-Mentoring | Student Mentor   *Toronto, ON* | *Sept 2020 – Apr 2021*
- Helped transition incoming first-year students to university with weekly mentoring meetings and specialized learning plans.

TMU CSCU | VP Academic, 3rd & 4th Year Rep (various terms)   *Toronto, ON* | *Sept 2019 – Apr 2021*
- Collaborated with professors and faculty staff to implement a new Computer Science degree specialization in Machine Learning.

Skills & Honors

Programming	Java, Kotlin, Python, Virtual-Reality (C#), Ruby on Rails, TypeScript, JavaScript, GraphQL, HTML/CSS, SQL, LaTeX
Tools & Frameworks	Git, Unity, Airflow, Apache Spark/PySpark, Redshift, React, Docker, Kubernetes, AWS, Redis, Jinja, PostgreSQL
Honors	Academic Perseverance in Computer Science Scholarship, Computer Science Program Recognition Award

Education

Toronto Metropolitan University | Honours BSc. — *Computer Science*   *Toronto, ON* | *May 2021*
- **Relevant Courses**: Reinforcement-Learning • Web Application Development • Computer Vision • Databases • Computer Networks