Noah **Mifsud-Lattari**

DUAL CITIZEN (Canada & USA) | Computer Science Graduate

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Experience

Wealthsimple | Software Engineer II   *Toronto, ON* | *Nov 2023 – Current*
- Co-led the implementation of the new "Performance Document" with the product team by writing new PySpark jobs and PDF generation code, displaying financial information about clients' investment accounts, distributed to millions of users monthly.
- Led the development of a new Airflow DAG that initiates a Python Spark job to dynamically create and populate the "FHSA" tax form for thousands of Wealthsimple clients, ensuring each client can automatically generate a PDF for upcoming tax seasons.
- Coordinated with our tax team and the CRA to write Ruby on Rails classes to report client tax information via dynamic XML files

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-lead 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 DybamoDB.
- 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.
- Served as the company's most junior on-call for backend within 4 months of joining, investigating issues using Datadog monitors.

Shopify | Software Engineer   *Toronto, ON* | *May 2021 – May 2022*
- Re-wrote billing subscription classes and jobs using Ruby on Rails to seamlessly allow merchants to pay for Shopify in various currencies through the integration of GraphQL APIs, driving a 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 allows 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 serves 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 devices 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%.

Q4 Inc. | QA Engineer Intern   *Toronto, ON* | *Apr 2019 - Sept 2019*
- Reduced testing time for engineers by creating an automated test suite in Java and Selenium resulting in faster code shipment.

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, VR Development (C#), Ruby on Rails, Matlab, Python, HTML/CSS, Node.js, SQL, LaTeX
Tools & Frameworks	Git, Unity, Airflow, OpenGL, Docker, Kubernetes, AWS, Linux
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