

# Mariya Turetska

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Personal Website: <https://mariyatur27.github.io/Personal-Website/>

GitHub: <https://github.com/mariyatur27>

**Tools / Skills:** Fullstack, Data Engineering, APIs, Docker, Git, Linux, Unix, Databricks, AWS, Airflow, Postman, Azure, Splunk

**Languages / Frameworks:** TypeScript, Next.js, SQL, React, Node.js, Express.js, Python, Django, Flask, Java, C, C++, HTML, CSS

## EDUCATION

Software Engineering Honours, Co-Op  
University of Waterloo, Ontario  
Excellent Academic Standing  
GPA: 3.7

## AWARDS & HONOURS

- President's Scholarship of Distinction (\$2,500)
- Umra Vati Goyal Scholarship (\$5,000)
- Waterloo Wellington Engineering Fair Scholarship (\$2,000)
- Toronto Transportation Club Scholarship (\$8,000)
- CP Rail Scholarship (\$1,000)
- University of Toronto National Scholarship Winner (\$100k)

## EXTRACURRICULARS

VP of Sponsorship at Women in Engineering, 2024 - Now  
Waterloo Engineering Society, 2023 - Now

## WORK EXPERIENCE

Software Engineer - Capital One - Customer Aquisition Team

Sept 2025 - Dec 2025

- Improved **customer onboarding flows** by ~45% by integrating **Smarty API** with existing Capital One services to implement **address validation, sanitization** and **intelligent prefill** in **Typescript**
- Developed a **React** feature that improved occupation **search performance by 24%**, optimizing component rendering, state management and data fetching.
- Led a **cyber compliance initiative** to identify and mitigate **API security vulnerabilities**; implemented **recursive request field validation and sanitization** to safeguard an external API against SQL injection.
- Maintained and optimized **infrastructure services**, including **S3 buckets, Docker containers**, and **CI/CD deployment pipelines** to ensure reliable and scalable operations.

Data Engineer - Royal Bank of Canada (RBC) - Polaris Data and AI Team

Jan 2025 - May 2025

- Enhanced APIs in **Node JS** to migrate data services from **Azure DB** to **Databricks**.
- Developed a **Python** workflow that **queried, fetched and downloaded 1M+ entries** of data to **AWS S3** buckets in **Databricks notebooks**, triggered by an internal API.
- Created a script to **automate manual testing** by extracting and formatting relevant data from **100+** Airflow DAG runs.
- Deployed a **Fast APIs** app that **scrapes web links** and summarizes **10+** pages of content into several sentences using **GenAI**, saving **20+ hours** of work/week and **\$24K** annually.

Full-Stack Web Developer - Health Network (UHN)

May 2024 - Aug 2024

- Created **APIs** and scripts to **automate** the migration process of **1300+** articles from the old UHN intranet website.
- Created and enhanced **data-fetching scripts** and **generated JSON databases** that improved the efficiency and simplicity of maintaining up-to-date content for **7+** of the organization's projects.
- Worked on **dotCMS backend server** to improve and restructure the applications' components and data containers.
- Created and improved **RESTful APIs** to enhance **UX** by efficiently gathering and working with user information.

Junior Developer - Fearless+

Apr 2022 - May 2023

- Developed and maintained organization's website using **JavaScript, CSS, HTML** and **JSON** in **WordPress** framework.
- **Designed, tested and evaluated** the frontend and backend of the web application that was created for **over 300** users to help users find job and volunteer opportunities.

## FEATURED PROJECTS

Woof · React Native | Supabase | Next | Google Maps · <https://github.com/mariyatur27/Animal-Reporting-App>

I've built an MVP for an animal-reporting app that lets people quickly report lost, found, or injured animals, share photos and locations, and help local shelters and rescue organizations respond faster. I'm planning to apply to Velocity for support so I can keep developing the platform and scale its impact in the community.

Agora · Node JS | API | Spotify | Cohere · <https://github.com/mariyatur27/Agora>

I developed a web application that makes music artist recommendations based on what the user is currently reading. The algorithm analyzes the mood of the inputted text, Cohere API is used to generate the artist's name suggestion that aligns with the mood of the text, and Spotify API is used to output various songs by the recommended artist on the screen.