

Mariya Turetska

+1 (226) 881-2473 · mturetsk@uwaterloo.ca · <https://www.linkedin.com/in/mariya-turetska-36901a1b0/>

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

EXTRACURRICULARS

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

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)

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.