# Matia Raspopovic

*Software Developer*

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Website 🌐  GitHub   LinkedIn 

## Availability

Full-time starting July 2024

## Languages

C / C++     C#     Python

JavaScript / TypeScript     Java

## Technologies

*Cloud:* AWS, Google Cloud Platform
*CI/CD:* TeamCity, GitLab CI
*Databases:* MySQL, PostgreSQL
*Data Science:* Keras, Numpy, Pandas
*OS:* Linux, Windows, MacOS
*Project Management:* Agile, Jira, Rally
*Platforms:* Docker, Kubernetes
*Testing:* Postman, Swagger, XUnit
*Version Control:* BitBucket, GitHub
*Web:* .NET Core, Lit.js, Next.js, Node.js, React.js, Redux.js, Tailwind CSS, tRPC

## Relevant Courses

Algorithms and Data Structures
Database Management Systems
Discrete Mathematics
Machine Learning
Neural Networks
Operating Systems
Reinforcement Learning
Systems Programming
Web Development

## Interests

Artificial Intelligence
Guitar
Reading
Rugby
Skiing
UX Design

## Education

*Bachelor of Computer Science,* Carleton University, Ottawa, ON          **2019-2024**
- Fourth Year Standing | Honours Computer Science, Minor in Business
- Teaching Assistant (Database Management Systems)

## Professional Experience

*Software Developer Co-op,* D2L, Kitchener, ON          **May 2023-August 2023**
- Developed a pipeline to import data segregation rules from Brightspace datasets to a third-party BI platform. Architected and created user stories for a solution to apply data permissions with row-level security (RLS). **(AWS Lambda, AWS Quicksight)**
- Lead a strategic project to build a prototype feature for exporting Brightspace dashboards to a pdf file. Took the project from concept to implementation and demonstrated value to internal stakeholders. **(Lit, Javascript, CSS)**
- Built a prototype feature for creating assignment rubrics with generative AI. Included user inputs in LLM prompt-engineering to yield high-quality outputs, resulting in the initiative being considered for development in production. **(GPT-3, OpenAI API)**

*Web Developer Co-op,* Nokia, Ottawa, ON          **January 2023-April 2023**
- Implemented a highly-requested feature allowing users to highlight multiple policies on the NSP network map simultaneously, overcoming the previous limitation of handling only one policy at a time. **(React.js, Redux.js)**
- Enhanced the Worst Case Failure simulation by introducing a new details page, providing users with comprehensive insights into link failure impacts **(CSS)**

*Software Developer Co-op,* Geotab, Waterloo, ON          **May 2022-August 2021**
- Developed an O(nlogn) algorithm that aggregates real-time vehicle position, speed and ignition data using overlapping time intervals. Facilitated the ingestion and delivery of third-party GPS data to end-user applications. **(C#, .NET Core)**
- Implemented an asynchronous error-handling strategy to reduce internal server errors when sending batch requests to the Ford Commercial Solutions API. **(HTTP, REST)**
- Improved security infrastructure by standardizing environment configurations and migrating code secrets to a secure third-party platform. **(BigQuery, SQL, Vault)**

*QA Automation Developer Co-op,* Ciena, Ottawa, ON          **May 2021-December 2021**
- Developed test automation and monitored nightly regression builds resulting in the discovery of 20+ software defects of major priority. **(JavaScript, Kibana, Postman)**

## Applied Projects

*Co-Founder,* Advantage Academy, Ottawa, ON          **September 2020-Present**
- Leading the development of a web app to allow students and tutors to book lessons, log hours, and submit feedback. **(Next.js, TypeScript, tRPC, Tailwind CSS)**
- Leveraging serverless authentication, database and payment platforms to architect scalable and cost-effective solutions. **(Clerk, MySQL, PlanetScale, Vercel)**

## Extra-Curricular Activities

*Mentor,* Science Student Success Center, Carleton University   **March 2020-March 2022**
- Counselled computer science students on strategies to achieve academic success and hosted workshops demonstrating how to incorporate Git into university studies.

*Athlete,* Men's Rugby Team, Carleton University          **August 2019-August 2022**
- Applied strong communication and rigorous work ethic to play a pivotal role in a 2019 championship victory and successful playoff campaign in the 2021 season.