



# Matia Raspopovic

## Software Developer

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[Website](#)  [GitHub](#)  [LinkedIn](#) 

## Availability

4 months starting May 2023

## Languages

C / C++

C#

Python

JavaScript / TypeScript

Java

## Technologies

**Cloud:** AWS Certified Cloud Practitioner, Google Cloud Platform

**CI/CD:** TeamCity, GitLab

**Databases:** PostgreSQL, SQLite

**Machine Learning:** Keras, Numpy

**OS:** Linux, Windows, MacOS

**Project Management:** Agile, Jira

**Platforms:** Docker, Kubernetes

**Testing:** Postman, Swagger, XUnit

**Version Control:** BitBucket, GitHub

**Web:** .NET Core, Node.js, React.js, Express.js, CSS, HTML5

## Relevant Courses

Algorithms and Data Structures  
Database Management Systems  
Discrete Mathematics  
Machine Learning  
Operating Systems  
Software Engineering  
Systems Programming  
Web Development

## Interests

Artificial Intelligence  
Guitar  
Reading  
Rugby  
Skiing  
UX Design

## Education

*Bachelor of Computer Science*, Carleton University, Ottawa, ON

2019-2024

- Third Year Standing, Honours
- Minor in Business

*High School Diploma*, Sacred Heart High School, Stittsville, ON

2019

- Ontario Scholar, Honour Roll Designation

## Professional Experience

*Software Developer Co-op*, [Geotab](#), Waterloo, ON

May 2022-August 2021

- Developed an  $O(n \log n)$  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 requests to the [Ford Commercial Solutions](#) API. **(HTTP, REST)**
- Improved security and infrastructure by standardizing environment configurations and migrating code secrets to a secure third-party platform. **(Hashicorp Vault, MVC)**
- Identified the need for and added a feature to generate thousands of mock event messages to aid message-oriented middleware testing. **(Google Pub/Sub, Blazor)**
- Achieved 100% unit test code coverage for all changes. Leveraged system logging tools to trace software execution and functionality. **(XUnit, Google BigQuery, SQL)**
- Practiced Agile development by presenting in sprint demonstrations and contributing to planning sessions to influence API design decisions. **(Agile, Jira)**

*QA Automation Developer Co-op*, [Ciena](#), Ottawa, ON

May 2021-December 2021

- Developed test automation and monitored nightly regression builds. Discovered 20+ software defects of major priority and collaborated with developers to successfully investigate and devise solutions to bugs. **(JavaScript, Postman, REST, BitBucket, TeamCity, Kibana)**
- Leveraged recursive techniques to develop a path-counting algorithm for network graphs. Reduced runtime complexity by implementing adjacency matrices.
- Utilized network simulator APIs to develop and maintain tools for performing fiber-breaks which became widely used across the company.

## Applied Projects

*Co-Founder*, [Advantage Academy](#), Ottawa, ON

September 2020-Present

- Developing automated solutions for billing and payroll processes to streamline bookkeeping and reduce human error. **(Google APIs, TypeScript, PostgreSQL)**
- Building and maintaining the company website with emphasis on inbound marketing strategies to achieve a minimalist design. **(CSS, HTML5, Webflow)**
- Hiring and managing a team of tutors, overseeing schedules and providing curriculum resources to form teaching strategies in video conferencing lessons.

## Extra-Curricular Activities

*Mentor*, [Science Student Success Center](#), Carleton University **March 2020-March 2022**

- Counselling computer science students on strategies to achieve academic success.
- Hosted version control software workshops that educated a dozen students on how to incorporate Git into their studies and contribute to open-source projects.

*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.