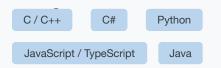# Matia Raspopovic

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Software Developer

matia1606@gmail.com | (613) 618-6362

Website 🌐 GitHub ⭘ LinkedIn in

Availability

4 or 8 months starting January 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
OS: Linux, Windows, MacOS
Project Management: Agile, Jira
Platforms: Docker, Kubernetes
Testing: Postman, Swagger, XUnit
UI/UX Design: Figma, Webflow
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
Human-Computer Interaction
Operating Systems
Software Engineering
Systems Programming
Web Development

Interests

Guitar
Machine Learning
Reading
Rugby
Skiing
Strength Training
UX Design

Education

Bachelor of Computer Science, Carleton University, Ottawa, ON   **2019-2024**
- Third Year Standing, Honours Software Engineering Stream
- 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 (Remote)   **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**
- Counselled 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.