Jared Matthews

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Education

Bachelor of Software Engineering, Co-op Program   **August 2021 – December 2025**
McGill University, Montreal, Canada

- **Relevant Courses |** • Accounting and Economics for Engineers • Artificial Intelligence • Model-Based Programming • Algorithms & Data Structures • Statistics • Algorithm Design • Machine Learning • Client and System Requirements

Skills and Qualifications

Programming Languages | • Java • Python • C • C# • JavaScript • ARM Assembly • Bash • OCaml
Frameworks & Libraries | • Spring Boot • Spring MVC • Spring ORM • .NET • ReactiveX • GRPC
IDEs | • Visual Studio Code • Visual Studio • IntelliJ • PyCharm • WebStorm • CLion • Eclipse • Jupyter Notebook
Concepts | • REST APIs • Reactive Programming • MVC Architecture • Microservice Architecture • Version Control
Languages | • English (native, C2) • French (professional working proficiency, B2)
Soft Skills | • Creative • Problem-Solver • Leader • Adaptable • Coachable • Communicative • Detail-Oriented

Work Experience

Solution Engineer Intern   **May 2023 – August 2023**
Canadian National Railway | Montreal, Canada

- Developed robust backend functionalities for a metric-fetching application, leveraging Java, PostgreSQL, and Spring Boot, while being managed by Azure DevOps and implemented following a Scrum-Agile software development lifecycle through use of User Stories.
- Conducted thorough analysis of unit tests, identifying potential weaknesses, areas for optimization, and overall usefulness, and compiled results into a detailed report which was effectively presented to the supervisor.

Software Developer Intern   **May 2022 – August 2022**
Pointus Partners | Montreal, Canada

- Coordinated with Chief Technology Officer to create a gRPC market data price server, leveraging C# and Protocol Buffers, integrated with market data APIs, to relay data according to client requests.
- Produced highly functional classes utilizing synchronous and asynchronous design patterns for API calls and observable sequences, employing schedulers and semaphores to ensure thread safety.
- Created 100+ xUnit tests to guarantee heavily safe-guarded client-server interactions.

Professional Associations

President   **September 2024 – Present**
Vice President of Events   **September 2023 – September 2024**
Google Developer Group on Campus : McGill (GDG on Campus)

- Empowering over 300 club members by organizing and hosting a wide range of professional development events, including technical workshops, speaking events, and networking gatherings.
- Cultivating strong relationships with other clubs, companies, and influential speakers, securing their participation in our events, and thereby enhancing the club's reputation and expanding its reach.

Engineering Projects

StuddyBuddy   **February 2023 – May 2023**

- Spearheaded the development of a peer-studying web application aimed at fostering a strong and supportive community amongst motivated students striving for excellence.
- Successfully led a team of 10 developers as the Product Owner in a Scrum-Agile framework managed by GitHub Projects, ensuring the smooth management of project requirements, product backlog, and product vision.
- Fulfilled a pivotal role in the backend development by leveraging Java, PostgreSQL, and Spring Boot to create the model, REST endpoints, and associated business logic.
- Conducted thorough analysis of business requirements and user needs to define the system's architecture, ensuring scalability, performance, and maintainability.