Ion Basha

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EDUCATION

McGill University   Montreal, Canada
Bachelor of Science in Computer Science   ***Expected Graduation Date: May 2026***
- Relevant coursework: Intro to Computer Science and Object-Oriented Programming (OOP), Data Structures and Algorithms, Intro to Software Systems Programming (Unix), Software Design, Operating Systems, Applied Machine Learning, Distributed Systems

WORK EXPERIENCE

Software Developer Intern   January 2025 - May 2025
Cerence AI   *Montreal, Canada*
- Enhanced system observability by implementing middleware to track latency and performance metrics across gRPC and REST services
- Boosted testing efficiency by automating data extraction and preparation using Python and pandas to fetch and process regularly updated testing data
- Authored comprehensive test cases and built a test framework using pytest to improve code reliability and coverage
- Integrated deployment tests into GitLab CI/CD pipelines to assist with automating development processes
- Contributed to daily Scrum meetings, tracking task progress, implementing mentor feedback, and using Jira to manage Agile workflows

Software Developer Intern   May 2024 - September 2024
Moast   *Remote*
- Built an internal dashboard with Remix (React.js framework) for the user interface, utilizing Node.js, JavaScript, PostgreSQL, and Prisma for data retrieval and insights
- Produced documentation to assist with onboarding future software developers
- Identified and resolved software bugs, improving reliability and quality of production-level code

Computer Programming Instructor   July 2023 - August 2023
Under The GUI Academy   *North Vancouver, Canada*
- Taught elementary and high school students fundamentals of programming and OOP concepts through the PixelPAD engine using Python
- Followed a course curriculum and assisted students with developing their own simple applications

PROJECTS

C++ Chat Room | *C++, network programming, concurrency*   [GitHub Link](#)
- Built a multi-client chat room in C++ using TCP sockets and POSIX threads to handle multiple connections concurrently
- Implemented server-side message broadcasting, user join/leave notifications, and command parsing

Bus Location Tracker | *Kotlin, Android Studio, TransLink REST API, Google Maps SDK*   [GitHub Link](#)
- Developed an Android app to track real-time bus locations using the TransLink REST API
- Used Google Maps SDK to display current bus locations and route overlays
- Published on Google Play Store

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, HTML/CSS, JavaScript, SQL
Frameworks: React.js
Developer Tools and Technologies: Linux, Windows, Git, Visual Studio Code, IntelliJ, Android Studio, REST APIs, Prisma, Jira, CI/CD pipelines, pandas