

# 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

## 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
- Utilized programmatic search engine optimization (pSEO) techniques to create over 50 web pages and increase business visibility
- 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 Libraries:** Git, VS Code, IntelliJ, Android Studio, REST APIs, Prisma, Jira, CI/CD pipelines, pandas