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*
- Integrated deployment tests into GitLab CI/CD pipelines to assist with automating development processes
- Boosted testing efficiency by automating data extraction and preparation using Python and pandas to fetch and process regularly updated testing data
- Enhanced system observability by implementing middleware to track latency and performance metrics across gRPC and REST services
- Authored comprehensive test cases and built a test framework using pytest to improve code reliability and coverage
- 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 — *Montreal, Canada*
- 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
- Utilized programmatic search engine optimization (pSEO) techniques to create over 50 web pages and increase business visibility
- 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

EXTRACURRICULARS

Software Subteam Member — September 2024 - December 2024
McGill Formula Electric — *Montreal, Canada*
- Built a graphical user interface to display and graph data regarding the vehicle's performance using Python, pandas, Plotly, and PyQt5

PROJECTS

liveBus | *Kotlin, Android Studio, TransLink REST API, Google Maps SDK* — github.com/ionbasha/liveBus
- Developed an Android bus tracking app written in Kotlin using the Android Studio development environment
- Implemented a map to display buses using Google Maps SDK for Android
- Retrieved real-time transit information using TransLink REST API
- Published on Google Play Store

TECHNICAL SKILLS

Programming Languages: Python, Java, C, Kotlin, HTML/CSS, JavaScript, SQL, MIPS Assembly
Frameworks: React.js, Node.js, Express.js
Developer Tools and Libraries: Git, VS Code, IntelliJ, Android Studio, REST APIs, PostgreSQL, Prisma, Jira, CI/CD pipelines, pandas