Alexander Lako

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SKILLS

- Programming languages; Java, Python, C / C++, JavaScript, SQL, Matlab, VB
- Using programs and platforms such as Linux, MongoDB, Node.js, Spring, GitHub, IntelliJ, Arduino, QNX
- Utilizing Threads, Sockets, Template classes, TCP/IP, UDP, Agile/Scrum, UML, Use cases, Wireframes
- Developing code that is clear, strong, and intelligent
- Diagnosing / fixing bugs and software issues
- Demonstrating teamwork, communication, leadership, creativity (VP / Finance Executive CU Badminton Club)

WORK EXPERIENCE

Carleton University
Teaching Assistant
Sep 2024 – Apr 2025

- Supported students in their understanding of Quantum Computing and Quantum Comm. & Networking
- Graded assignments while providing feedback to help support academic growth
- Held weekly office hours assisting students with course content and academic challenges

Slide Group Inc
Backend Developer
Oct 2024 - Mar 2025

- Contributed to the development of a startup's Minimum Viable Product (MVP) by implementing backend features using the Spring Framework in JavaScript
- Implemented Data Transfer Objects (DTOs) to streamline data between application layers
- Participated in weekly Scrum meetings, contributing to agile development and sprint planning

Applied Financial Analysis Inc
Summer Computer Associate
Jun 2019 – Aug 2023

- Managed in-house computer system including procurement, hardware updates and software
- Purchased computers and components from various sellers including auctions, Amazon returns, bankruptcies
- Inspected, tested, and diagnosed used computers to identify good components and build optimized computers
- Sold refurbished computers through online and in-person channels

EDUCATION

Bachelor of Computer Science Honours
Minor in Mathematics
Software Engineering Stream
Carleton University (September 2020 – April 2025)

APPLIED PROJECTS

Elevator System Control
Developed a multi-threaded Java elevator control system and simulator. Elevator controller algorithm manages multiple cars concurrently, while simulator models cars, floors, lights, buttons, doors, and motors. Threads facilitate interaction between the controller and the simulator, with subsystem communication handled using DatagramSockets & UDP.

AED Simulator
Codeveloped an AED Simulator in C++ with QT Creator. Integrated features such as variable heart conditions, patient info display, safety protocols, self-check routines, and battery usage tracking. Technical documentation including UML, Traceability Matrix, Sequence Diagrams, and Use Cases.

Interactive Bookstore
Created an interactive bookstore using Python with custom SQL database. Owners can track sales and account information with associated reports. New books are added using multiple criteria of author, title, category, ISBN. Users can search books by criteria and availability with subsequent purchase.