ARTHUR BRIGHT

Student Id: 20937594   Program: CS

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SUMMARY OF SKILLS

> Creative thinker with an aptitude for **problem-solving** and **innovation**
> Experience with large codebases and fast-paced environments; quick to learn new frameworks

> 6+ years of experience coding in **Java** and **C#;** well-versed in advanced algorithms & OOP
> 3 years of experience in C++ through high-level competitive programming
> 4 years of experience with **web development**: JS, HTML/CSS, Node.js, Express, Socket.io, HTTP
> Proficient with GitHub, Mercurial, VS, along with other programming/source control tools

WORK EXPERIENCE

IMAGINE COMMUNICATIONS - BACKEND DEVELOPER   MAY - AUG 2022

> Developed robust HTTP client for communicating with third-party storage systems in .NET
> Optimized SQL database connections to improve performance tenfold
> Created AQA tests for new modules using protractor.js; repaired legacy tests
> Modified data structures/API calls to support backward-compatibility

TREASURED INC - JUNIOR PROGRAMMER   SEPT 2019 - FEB 2020

> Designed and implemented algorithm to generate contours of topological maps in C#
> Improved efficiency of object generation in existing code

EDUCATION

UNIVERSITY OF WATERLOO   SEPT 2021 - APRIL 2026

> Candidate for **Bachelor of Computer Science**
> **99.8%** faculty average, 98% overall average; top student in advanced level Math/CS courses
> Mathematics National Scholarship Recipient

PROJECTS

HOTSPOT 🔗

> Web app to track COVID-19 spread on heatmap, with REST API and Node.js server. **Winner at GarudaHacks 2020**

MULTIPIANO 🔗

> Realtime multiplayer piano app supporting private rooms. Graphical piano is served with Node.js + Socket.io

SPECTRAL 🔗

> Spectral analysis program that identifies musical chords from audio using ML. Built on Python + Tensorflow/Keras

HOBBIES & INTERESTS

Music arrangement • Bouldering • Swimming • Improv piano • Singing in the shower