WYATT WISMER

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EDUCATION

McMaster University *August 2016 - May 2021*
Bachelor of Software Engineering *Overall GPA: 4.00*

McMaster Competitive Programming *May 2019 - Present*
President

Lead team to manage an organization of over 300 students · Taught workshops · Competed in ICPC regionals

EXPERIENCE

Microsoft *June 2019 - August 2019*
Software Engineering Intern
· Enabled users to embed Python scripts into their Azure SQL Data Warehouse queries.
· Parallelized execution of these scripts based on user provided parameters and data distribution.
· Extended ANTLR grammar to let users specify an output schema for a query result.

Intel *August 2018 - May 2019*
Software Engineering Intern
· Designed an API to allow other teams to model the effect of parasitic data on wire delays.
· Optimized a 26 year old subsystem – reducing runtime and solving long standing memory issues.
· Created tooling to assist with tracking code coverage, replacing macros and automating code analysis.

Microsoft *May 2018 - July 2018*
Software Engineering Intern
· Implemented system in C# to validate JSON against an OpenAPI specification.
· Designed a filter using system to validate Azure Data Factory API requests from clients.
· Applied filter to find inconsistencies between the specification and API usage in tests.

PROJECTS

MoreSubwords · **Golang** A multiplayer game based around finding words that are substrings of a phrase. Uses websockets for communication and *Longest Common Subsequence* to verify user answers.

Collaborative Whiteboard · **Node.js/Socket.io** A real time collaborative whiteboard. Brush strokes of individual users cause all users to receive an update to their whiteboard.

IsoRender · **Javascript** A 3D object editor and rendering system for isometric figures. Supports rotations along all axes and provides saving functionality by encoding shape data in character strings.

PytchControl · **Python** Uses PyAudio to detect patterns in changing pitch, allowing users to interface with their computer via whistling or humming a series of notes.

AWARDS

Top 1% out of all HackerRank users, given by competition rankings.

1st Place achieved for performance in the 2018 McMaster Programming Competition.

Hatch Scholarship awarded for academic achievement, community contribution and leadership experience.

Provost Honour Roll for outstanding performance with a 4.0 GPA on at least 30 units.

TECHNOLOGIES

Python, C++, C#, Go, JavaScript, Bash, Transact-SQL, Java
LLVM, ANTLR, GDB, valgrind, scikit-learn, OpenCV, Node.js, Flask, Materializecss, Bulma