

# MATTHEW NG

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## EDUCATION

### University of Guelph

Bachelor of Computing, Computer Science (Co-op)

GPA: 4.0/4.0 (90% cumulative)

Guelph, ON, Canada

September 2019 - April 2024

## TECHNICAL SKILLS

Languages: Python, C#, C, C++, Go, JavaScript, Java, HTML/CSS, Dart, SQL

Frameworks/Tools: Node.js, React, Azure, AWS, MongoDB, Flask, Flutter, BeautifulSoup

## EXPERIENCE

### Google

Software Developer Intern

Waterloo, ON, Canada

August 2022 - October 2022

- Back-end development in Go for the Google Cloud Platform Healthcare API team.

### Microsoft

Software Engineer Intern

Redmond, WA, United States

May 2022 - July 2022

- Back-end development of a highly requested upcoming project creation automation feature for the Microsoft Office Project team using C#.
- Developed a .NET RESTful API that stores, retrieves, and creates files pertaining to project management, leveraging numerous microservices using Azure Service Fabric.

### Microsoft

Software Engineer Intern

Vancouver, BC, Canada

September 2021 - December 2021

- Back-end development of tools for a message passing mechanism that distributes operations to 100+ Azure servers across the globe using C# for the Microsoft Office Planner team.
- Architected the porting of diagnostic software for use in highly secure environments that previously required manual diagnostic intervention, increasing maintenance efficiency by >100%.

### Distributive

Software Developer Intern

Kingston, ON, Canada

May 2021 - August 2021

- Full-stack development of software components and libraries for a distributed parallel computing platform called the Distributed Compute Protocol using Node.js.
- Developed features and fixes that significantly improved the reliability, efficiency, and performance of the platform involving connectivity, payments, and security.

### University of Guelph

Teaching Assistant

Guelph, ON, Canada

September 2020 - December 2020

- Taught concepts of discrete mathematics such as: logic, set theory, mathematical proofs, and numerical systems to a class of 285 students.

### University of Guelph

Research Assistant

Guelph, ON, Canada

May 2020 - August 2020

- Worked with the School of Computer Science and Ontario Veterinary College for a research project funded by the Bill & Melinda Gates Foundation: Global Burden of Animal Disease.
- Developed an API and data dashboard that stores and displays agricultural data using Python, Flask, and Plotly, aiding in securing approximately \$300k in funding for the project.

## PROJECTS

### Classic Simpsons Episode Suggester *JavaScript, Node.js, MongoDB*

Full-stack webapp that recommends golden-era Simpsons episodes with a user rating feature.

### Super Duper Compressor *C++*

Implemented a file compressor in C++ using Huffman Coding.

## AWARD & EXTRACURRICULAR

### Society of Computing and Information Science

Vice President, Internal.

University of Guelph

April 2020 - May 2021

### North America Champion: Public Anthropology Writing

Top paper out of 2500 contestants across 22 universities in North America.

Hawaii Pacific University

November 2019