MATTHEW NG

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EDUCATION

University of Guelph   Guelph, ON, Canada
Bachelor of Computing Computer Science *GPA: 4.0 cumulative (89% overall)*   2019 - 2023 (expected)

EXPERIENCE

University of Guelph   Guelph, ON
Research Assistant & Software Developer   May 2020 - August 2020

- Worked on a humanitarian research project funded by the Bill & Melinda Gates Foundation: Global Burden of Animal Diseases.

- Developed an API that stores agricultural data using Python, Flask, and SQLite and gathered data through webscraping using the Python BeautifulSoup Library and Selenium.

- Used Python, HTML/CSS, Flask, R and Plotly Dash to perform data analysis and design a web dashboard to present data that represents the global economic impact of animal disease.

- Helped secure over $300k in funding for the project through the inclusion of the dashboard and API in a funding proposal.

School of Computer Science @ University of Guelph   Guelph, ON
Teaching Assistant   September 2020 - Present

- Teaching Assistant for CIS*1910 Discrete Structures I.

- In charge of teaching concepts of Discrete Mathematics such as: Logic, Set Theory, Mathematical Proofs, Circuits, and Numerical Systems.

- In charge of attending labs, marking assignments, and answering student questions in a class of 285 students.

The Garden Basket   Markham, ON
Meat Clerk   May 2018 - January 2019

- Communicated with and provided service to customers, packaging and serving a variety of different types of meats.

- Worked in an active, fast-paced work athmosphere that demanded meeting constant deadlines and expedient labour.

SKILLS

Languages:	Java, Python, C, C#, R, HTML/CSS
Software:	MATLAB, Matplotlib, Jupyter
Communication:	Public speaking experience to large groups, highly proficient writer

PROJECTS

Fresh Search - Dataminer/Search Engine *Python, Java*
Created a research-oriented Dataminer/Search engine that uses machine learning to parse information and generates relevant keywords to create informative paragraphs using natural language training.

KeepFiles *C#*
Created a streamlined and simple file backup tool in C# with WPF. Gained further experience in object-oriented programming and software design.

AWARDS

Sir Isaac Newton Physics Contest School Champion   University of Waterloo
School champion and ranked in the 88th percentile for Canada.   May 2019

North America Champion: Public Anthropology Letter Writing   Hawaii Pacific University
Top submission out of 2500 contestants across 22 universities around North America.   November 2019

University of Guelph Dean's Honours List   University of Guelph
Achieved a semester average of over 80%.   January 2020, May 2020