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# Mason Shipton

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## SKILLS

- Developed a knowledge base using **Python, NumPy, Pandas**; employing **Git** for version control
- Tutoring students in **C/C++, Java, x86-64 Assembly, MATLAB, Visual Studio Code, Linux, and Jupyter**.
- Skilled in **SQL, Apache Spark** for database management, and web development (**HTML, CSS, JavaScript**).
- Composing **technical reports** and presenting at ACL conferences and Ontario Tech University.
- Strong **leadership** as a research team lead; **adaptable, action-oriented**, and a **collaborative team player**.
- Excellent interpersonal and communication skills in **English and French**.

## EDUCATION

**Bachelor of Science (Hons) - Computer Science Co-op**      EXPECTED GRADUATION MAY 2027

*Ontario Tech University, Oshawa*

- **Minor in Mathematics**
- **cGPA:** 4.30/4.30 - President's List (2024), In-Course Scholarship (2024), Award of Recognition (2023)
- **Relevant Courses:** Software Systems, Software Design, Data Structures, Computer Architecture, Scientific Data Analysis, Programming Workshop, Statistics & Probability, Linear Algebra, Calculus

## EXPERIENCE

**Research Team Lead**

APR 2024 - PRESENT

*Lee Language Lab, Ontario Tech University and University of Toronto*

- Led a research team to develop URIEL+, a Python-based database of language features for 8,000+ languages, enhancing performance in natural language processing tasks by up to 50%. Presented in a paper accepted at the International Conference on Computational Linguistics (COLING 2025).
- Leading development of a writing systems database, expanding language typological coverage by 150%.
- Co-developed the natural language processing curriculum and assignments at Ontario Tech, which earned the Audience Award at the Association for Computational Linguistics (ACL 2024) conference.

**Peer Educator**

AUG 2024 - PRESENT

*Student Learning Centre, Ontario Tech University*

- Explaining concepts in calculus, linear algebra, statistics, probability, and computer science to first- and second-year students, including over 65 students during the Fall 2024 semester.
- Teaching programming languages, frameworks, and tools such as Python, Java, C++, x86-64 Assembly, MATLAB, Object-Oriented Programming principles, Visual Studio Code, Git, Linux, and Jupyter Notebook.

**Engineering Team Member**

DEC 2023 - PRESENT

*Mathstronauts, Oshawa*

- Mentored 200 Junior students at STEM Hacks 2023. Introduced them to artificial intelligence (AI), its operations, and model training through challenges involving autonomous vehicles.
- Handled technology setup and troubleshooting, sparking an early interest in STEM and inspiring creativity and innovation among participants.