Mason Shipton

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SKILLS

- **Languages**: Python (NumPy, Pandas), C/C++, Java, SQL, HTML5, CSS, JavaScript, LaTex, x86-64 Assembly, Fluent in English and French
- **Tools**: Git, Apache Spark, Visual Studio Code, IntelliJ, Unix/Linux, Jupyter Notebook, PowerPoint, Excel

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 the 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.
- Composed technical reports and presentations for conferences, showcasing strong communication skills.
- Facilitated team meetings to discuss updates, assign tasks, and engage potential collaborators.

Peer Educator AUG 2024 - PRESENT

Student Learning Centre, Ontario Tech University

- Tutored 65+ students in Fall 2024 in calculus, linear algebra, statistics, probability, and computer science.
- Taught programming languages, frameworks, and tools such as Python, Java, C++, x86-64 Assembly, MATLAB, SAS, Object-Oriented Programming principles, VS Code, Git, Linux, and Jupyter Notebook.

PUBLICATIONS

- **URIEL+: Enhancing Linguistic Inclusion and Usability in a Typological and Multilingual Knowledge Base** (Aditya Khan, Mason Shipton et al., 2025; COLING 2025) https://aclanthology.org/2025.coling-main.463/
- **Empowering the Future with Multilinguality and Language Diversity** (En-Shiun Annie Lee, ..., Mason Shipton; COLING 2025) https://aclanthology.org/2024.teachingnlp-1.10/

PROJECTS

URIEL+ https://github.com/Masonshipton25/URIELPlus

- A knowledge base representing 8,000+ languages as geographic, phylogenetic, and typological vectors developed with Python (NumPy, Pandas), Git, and Jupyter Notebook for demos.
- Linux and Shell scripting used to execute downstream natural language processing tasks for validation, results recorded in Excel and analyzed with Python, improving performance by up to 50%.

Personal Website https://masonshipton25.github.io/Website/

- Developed using HTML, CSS, and JavaScript, hosted on GitHub Pages.
- Showcases research at Lee Language Lab and educational resources for courses I support as a peer educator, with a user-friendly, responsive design optimized for performance and accessibility.