Jillian Brown

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Summary

Passionate MSc student in Natural Language Processing in search of an NLP/AI Engineering internship to apply and improve my skills, particularly in textual processing and machine learning. Currently based in Nancy, France but willing to relocate for summer internship.

Professional Experience

Software Developer, *ScholasTech | <u>Wordification</u>* — **May 2024 - July 2025**

- Engineered automated tools to transform external linguistic data into structured inputs, increasing data processing efficiency for core software systems.
- Developed scalable full-stack features using Redwood.js and React.js, ensuring high-performance integration between frontend UI and backend services.
- Optimized relational database schemas and SQL queries, reducing data retrieval latency and improving the accuracy of real-time reporting.
- Cross-collaborates with educators and engineers to bridge the gap between academic theory and technical implementation, delivering user-centric pedagogical tools.

Research Assistant, *University of South Carolina* — **Oct 2022 - Apr 2023**

- Standardized a comprehensive dataset of speech, cleaning and consolidating data into structured formats for longitudinal linguistic research.
- Managed complex data entry and quality assurance in Excel, ensuring 100% accuracy in the transcription and coding of experimental speech variables.

Project Experience

DetectErreur — **Sep 2025 - Jan 2026**

Educational Technology Tool developed at University of Lorraine, *Nancy, France*

- Designed text processing algorithm using Python, spaCy, and Mistral to detect and correct errors in French learner writing
- Employed prompt engineering and retrieval augmented generation (RAG) of small language models to generate educational feedback to student users

Education

Master of Science in Natural Language Processing — **Sep 2025 - June 2027**

University of Lorraine, *Nancy, France* | University of Basque Country, *Donostia, Spain*

- Erasmus Mundus Language & Communication Technology Scholar
- Double Degree Program

Bachelor of Arts in Global Studies & Linguistics — **Aug 2020 - Dec 2024**

South Carolina Honors College, University of South Carolina, *Columbia, SC, USA*

- *Thesis:* "Pragmatic & Discourse Particles of Singaporean English"

Essential Skills

- **Programming & Web Development:** Python, JavaScript, Java, CSS/HTML
- **Tools & Frameworks**: SQL, React, Git, PyTorch, Redwood.js
- **Languages:** English, Spanish (*Advanced*), Korean (*Intermediate*)
- **Skills**: App Development, Retrieval Augmented Generation, Web Scraping, Prompt Engineering