

Jillian Brown

Nancy, France • jilljrb@gmail.com • +33 07 69 05 70 87

Website: jillianjrb.github.io

Summary

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

Professional Experience

Research Assistant, LORIA Laboratory | University of Lorraine January - June 2026

- Designing analytical and clinical validation protocols to map vocal biomarkers to physiological behavior, controlling for demographic and environmental cofactors.
- Engineering Python pipelines to verify feature reproducibility and isolate genuine speech signals from high-dimensional acoustic noise.

Software Developer, ScholasTech | Wordification 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-collaborated with educators and engineers to bridge the gap between academic theory and technical implementation, delivering user-centric pedagogical tools.

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*

- 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
- **Skills:** App Development, Retrieval Augmented Generation, Web Scraping, Prompt Engineering, Large Data Sets