

# Armando Hull | AI Engineer

Linguistics | Machine Learning | Natural Language Processing | Speech Processing

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## Experience

**Data Scientist** - Invisible Technologies Inc. Jul 2023 – Present

- Optimizing retrieval-based LLMs by implementing reinforcement learning and advanced attention mechanisms
- Mitigating bias in embeddings and engineering adversarial testing frameworks to enhance model robustness
- Designing and deploying scalable evaluation pipelines for dense and hybrid retrieval models

**Election Data Operations Assistant** - City of Philadelphia May 2022 – Nov 2023

- Coordinated election-day operations by managing voter data logs and polling workflows
- Enforced procedural compliance and safeguarded data integrity during ballot processing

**Research Assistant, Chaga Dialect Project** - Temple University May 2020 – Aug 2020

- Structured and curated linguistic datasets on KiVunjo Chaga (Bantu)
- Developed a searchable digital database using FLEx to support collaborative research

**Language Services Intern** - ChristianaCare Jul 2015 – Sep 2015

- Analyzed and reported survey data, driving recommendations that improved departmental efficiency
- Observed and supported medical interpreters, gaining hands-on experience in healthcare communication and cross-cultural mediation

## Education

**M.S. NLP and Speech Processing** - Indiana University Bloomington Aug 2024 – May 2026

- Conducting advanced coursework and applied research in computational linguistics and machine learning
- Focus on natural language processing and speech technologies

**Certificate in Linguistics** - Temple University 2017 – 2021

- Research in psycholinguistics: L1/L2 acquisition, multilingual processing
- Research in sociolinguistics: linguistic variation, code-switching

**B.A. Spanish Linguistics (Honors)** - Temple University 2017 – 2021

- Minor: English
- Graduated *Cum Laude*, Distinction in Major
- Dean's list Fall 2017, Fall 2019, Spring 2020, Fall 2020

**Japanese Language and Literature** - Temple University Japan 2019

- Linguistic immersion and intensive language study
- Expanded proficiency in Japanese language and culture

## Skills

**Language** - Linguistics/Proficiency

- Linguistics: Psycholinguistic research methods | Corpus linguistics methods | Text preprocessing | Feature extraction | Dataset curation | Phonetic analysis
- Languages: Spanish (Native) | Japanese (Limited Working) | ASL (Elementary)

**Tools** - Software

- Languages/IDEs: GitHub | Java | JavaScript | PowerShell | Python | R | RStudio | Visual Studio Code
- Machine Learning/AI: scikit-learn | TensorFlow | PyTorch | Gemini | Copilot | GPT | Claude | Llama | Qwen
- Data Structure/Visualization: JSON | LaTeX | Typst | Matplotlib | NLTK | NumPy | Pandas | Tidiverse