

# Lucas Pearce

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## Education

University of Utah, BS/MS Computer Science; B.S. Linguistics; Computational Linguistics Certificate

Graduated May 2026 | GPA: 3.94 | Continuing with MS in Fall 2026

- Dean's list every semester
  - Relevant coursework: Data Mining, Natural Language Processing, Algorithms, Interpretability of LLMs
  - Did undergraduate research on byte-level tokenization for multilingual LLMs
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## Skills

Languages: Python, TypeScript/JavaScript, C-style Languages, R, Scala

Concepts: NLP, Mechanistic Interpretability, DSA, Data Mining, Databases, Machine Learning, Algorithms, GIS

Tools/Frameworks: Git/Github, Pytorch, Numpy, MySQL, Unix/Terminal, Agile/Scrum

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## Experience

Software Engineering Intern — *Lucid Software*

May 2025 - Aug 2025

- Built and optimized product integrations (Scala, TypeScript, Angular) in 2-week sprints.
- Improved Chrome integration load times by eliminating redundant reloads.
- Refactored UI embeds and deprecated legacy integration, reducing tech debt.

Teaching Assistant – *Foundations of Data Analysis* — *University of Utah*

Aug 2025 – May 2026

- Supported 200+ students through office hours and online Q&A.
  - Graded coursework and provided feedback to improve learning outcomes.
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## Technical Projects

PitchParse - *C#, Data Mining*

Apr 2024-Nov 2024

- Implemented data-driven filtering logic (frequency, minimal pairs, learned status) to output customized study lists for Japanese learners.
- Makes learning Japanese pitch accent 30-50% more efficient when used. Niche utility with two stars on GitHub.

Home Lab - *Ubuntu, Docker, Unix*

Jun 2025-Aug 2025

- Built and set up a Linux home server to self-host software, media libraries, games, and a Discord bot.
- Gained deep experience with the Unix CLI, remote dev work, containers, and more.

WhereWild - *GIS, Python, WebDev*

Oct 2025-Present

- Senior capstone project focused on aggregating and analyzing species data based on occurrence data.
- Automatically generated field guide for 400,000+ species over 40+ environmental variables
- Won honorable mention at demo day

Multilingual BLT - *NLP, Tokenization*

Jan 2026-Present

- Undergraduate research project on extending architecture for byte-level dynamic tokenizers to a multilingual context