Zachary Crenshaw

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EDUCATION

UNIVERSITY OF CHICAGO

Linguistics & Computer Science GPA: 3.9 / 4.0 Expected June 2021

PROFILE

Seeking internship for Summer 2020

I strive to combine my expertise in computer science, my knowledge of linguistics, and my passion for education to create software that improves users' quality of life.

My primary interests include:

- Education Technology
- NLP + NLG
- Accessibility Technology

SKILLS & INTERESTS PROGRAMMING

Proficient:

Python • Java • Javascript • C Familiar:

HTML • CSS • LATEX • PostgreSQL

LANGUAGES

Proficient:

Spanish

Beginner:

American Sign Language • Catalan

INTERESTS

A Cappella • Constructed Languages Learning Languages

COURSEWORK COMPUTER SCIENCE

NLP + Machine Learning Universal Design DMBS

Data Structures + Graph Theory Architecture + Memory Management Education Theory + Game Design

LINGUISTICS

Phonetics + Phonology Acoustic Phonetics Syntax Semantics + Pragmatics Simply Typed Lambda Calculus Sign Language Linguistics

PROJECTS

WHO REALLY SPREADS NEW SLANG ONLINE?

June 2019 - Present

- Investigate slang use on Reddit, using Python scripts to scrape, analyze, and visualize data to determine what types of users more effectively popularize slang in online forums
- NOTE: Project in development. Proposal and project code available at github.com/zcrenshaw/SlangTransmission

TO SPACE AND BACK: A FRACTION LEARNING GAME

Oct 2018 - Dec 2018

- Utilized pair programming techniques and Common Core Curriculum guidelines to develop an educational game for 3rd-5th graders
- Combined Universal Design concepts with education theory and crucial elements of game design to create a customizable, accessible, and grade-appropriate educational gaming experience
- Links: Java code, a slide presentation, and full design write-up

RFSFARCH

SIGN LANGUAGE LINGUISTICS LAB | Research Assistant

Feb 2018 - Present | Chicago, IL

- Developed data cleaning methods for the next stage of the **Lexicon-Free Fingerspelling Recognition from Video** project to improve machine learning training set
- Annotated fingerspelling data in ELAN, edited other annotators' work to ensure quality training data, designed and implemented system to track edits
- Future projects: annotating British Sign Language dictionary tokens for location to provide tagged data for future researchers

UCHICAGO CANON LAB | Research Assistant

April 2019 - June 2019 | Chicago, IL

 Created Javascript and Python scripts to analyze common student mistakes and grading script errors to improve future iterations of a Scratch-based CS curriculum for 4th-6th graders

FXPFRIFNCF

JOHNS HOPKINS Center for Talented Youth | Teaching Assistant

June 2019 - August 2019 | Baltimore, MD; Lancaster, PA

- Co-taught the summer course: Linguistics: The Science of Language
- Facilitated evening classes (2 hours in length), contributed to narrative-style student evaluations, and provided instructional support to ensure student engagement and success

THE FRANKLIN INSTITUTE | Discovery Camp Counselor

July 2017 - Sept 2018 (Seasonal) | Philadelphia, PA

- Instructed on STEM topics such as Physics, Chemistry, Biology, and Computer Science to groups of 15+ children aged 4-14
- Directed classroom activities to facilitate interactive STEM learning
- Counselor-In-Training: June 2014 Sept 2016 (Seasonal)