

# John Speaks

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## EDUCATION

### University of Illinois Urbana-Champaign

*Bachelor of Science in Computer Science and Linguistics (Statistics Minor)*

08/2022 - Present

GPA: 4.0/4.0

## WORK EXPERIENCE

### Common Crawl Corpus Research

*Undergraduate Researcher*

Champaign, IL

09/2024 - Present

- Working with Professor Jonathan Dunn in Python to optimize and develop a pipeline to generate a high-quality global language corpus based on web-crawl data.
- Using Natural Language Processing and linguistic approaches to filter and manipulate extensive corpus data.

### CyberGIS Research Center

*Software Developer and Undergraduate Researcher*

Champaign, IL

01/2023 - Present

- Programming in Python to create Jupyter Notebook interfaces that allow non-technical geographers to use high-performance computing (HPC) clusters.
- Creating open-source documentation for the lab's CyberGISX software used for geographic computation locally and for the API which allows users to connect to university supercomputers.

### Phillips 66

*Cloud Innovation Intern*

Houston, TX

05/2024 - 08/2024

- Consolidated and updated 23 standard Terraform modules for cloud deployment on AWS and Microsoft Azure to match company standards and cut time spent using templates in development.
- Created a testing pipeline on Azure DevOps that simulates cloud development of my modified Terraform modules.
- Pioneered the first quantum computing project in the company and developed an optimization demonstration using AWS Braket as part of a team.

### University of Illinois Housing

*Network Technician*

Champaign, IL

08/2022 - 05/2024

- Provided customer service and tech support for thousands of residents in ten residence halls, including regular maintenance of computer labs and responding to after-hours calls by email, phone, and in-person visits daily.
- Utilized network management software to remotely monitor and fix issues with printers, servers, and ethernet.

### U.S. Department of State - Embassy New Delhi

*Information and Resource Management Intern*

New Delhi, India

06/2023 - 07/2023

- Designed web software and wrote reports to assist offices across the diplomatic mission in properly maintaining, destroying, and archiving sensitive/classified government records to comply with U.S. law and department policies.
- Performed hardware/software installations, replacement, and disassembly on government computer systems.

*General Services Office Intern*

07/2022 - 08/2022

- Organized and processed sensitive data for over 600 embassy properties across several databases and spreadsheets.
- Coordinated with the purchasing office and contractors for cleaning and maintenance services.

## EXTRACURRICULARS

### 'Jila' - An Educational App for Q'anjob'al Speakers

*Backend Tech Lead*

Champaign, IL

09/2024 - Present

- Manage the backend development team: using MongoDB and REST API to communicate with the ReactJS app.
- Coordinate with project managers and other teams to create an accessibility tool for local Q'anjob'al speakers.

### League of Linguists

*President and Undergraduate Representative*

Champaign, IL

08/2023 - Present

- Lead and organize club functions with the club executive team and coordinate with school organizations.
- Elected representative to the Linguistics Department Diversity and Inclusion Committee and All-Faculty Council.

### Linguistics Machine Learning Research

*Individual Research and Python Project*

Champaign, IL

02/2024 - 05/2024

- Trained embedding spaces, created classifiers, and used KMeans clustering to undertake linguistic research.
- Wrote a paper for each project and made the code available on my GitHub / personal website.

## RELEVANT SKILLS

**Technical Skills:** Full-stack development, machine learning and natural language processing, authentication, databases, Terraform and cloud deployment, quantum computing with AWS Braket, Git, leadership, and teamwork.

**Coding Languages:** Dart, Python, TypeScript, JavaScript, HCL, Kotlin, C++, C Java, Bash, C#