

# John Speaks

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## EDUCATION

### University of Illinois Urbana-Champaign

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

Graduating 05/2025

GPA: 4.0/4.0

## WORK EXPERIENCE

### CyberGIS Research Center

Software Developer

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.
- Using Git for version control and sharing code with my development team.

### Phillips 66

IT Intern - Cloud Innovation

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

- Providing 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.
- Utilizing network management software to remotely monitor and respond to issues with printers, servers, and ethernet connections.

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

Information and Resource Management Intern

New Delhi, India

06/2023 – 07/2023

- Designed web software to assist offices across the diplomatic mission in properly maintaining, destroying, and archiving sensitive and classified government records and created a 30-page report describing best practices to keep records compliant 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.

## PROJECTS

### 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.

### 'Crackdown' Productivity App

Full Stack Software Developer

Champaign, IL

06/2023 – Present

- One of two full stack developers creating a productivity app from scratch. One of four founders.
- Developing for Android and IOS simultaneously in the Dart programming language using the Flutter library.
- Managing user creation, authentication, and databases using Firebase and Cloud Firestore.

## RELEVANT SKILLS

**Technical Skills:** Full stack software development, managing databases/user authentication, Terraform and cloud deployment, Jupyter Notebooks, AWS Braket quantum applications, Git version control, hardware and software troubleshooting, customer service and teamwork

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