

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

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.

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.

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 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.

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

- 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 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#