

# Drshika Asher

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## EDUCATION

### University of Illinois at Urbana Champaign

B.S. Computer Science

**Coursework:** Algorithms and Models of Computing, Data Structures, Discrete Structures, Linear Algebra, Numerical Methods, Probability and Statistics for CS, Software Design Studio

**Awards:** JP Morgan Chase WCS Scholarship Recipient, Illinois CS Tapia Scholarship Recipient, Code Ada Hackathon Judges Choice Winner

Champaign, IL  
August 2020 – May 2024

## EXPERIENCE

### Microsoft

Incoming Undergraduate Research Intern

Redmond, WA  
Summer 2022

### Cargill

Full Stack Software Engineering Intern

Champaign, IL  
Jan 2022 - Present

- Working with a cross functional team to develop a mobile software prototype for a Cargill stakeholder
- Gaining experience with Agile Software Development and React Native through project
- Collaborating with international team to fulfill project requirements

### Department of Computer Science

CS Student Research Scholar (CS STARS)

Champaign, IL  
August 2021 - Present

- Used Natural Language Processing and Machine Learning (NLP) techniques like Sparse Additive Generative Models (SAGE) and Latent Dirichlet Allocation (LDA) to identify key trends and frameworks in Moderation on Audio Based Social Platforms (ABSPs)
- Coauthor on "Harmonizing the Cacophony" (in peer review) as Computer Science for Collaborative Work 2021 where I worked on evidence and analysis for key themes in ABSPs
- Utilized Svelte framework, Python, React and D3.js to build an interactive application to track comment removal across 15+ subreddit

### EnterpriseWorks

Frontend Developer Intern

Champaign, IL  
May 2021 - August 2021

- Collaborated with a team of designers and public relations to design intuitive user interfaces for Enterprise-Works clients
- Improved Research Park website health by 63% and updated SEO reflect changes in Google Core Web Vitals
- Redesigned over 20 pages of internal websites written in HTML, CSS and PHP

## PROJECTS

### Tanpura App

[github.com/drshika/tanpura-app](https://github.com/drshika/tanpura-app)

C++, Cinder, CMake  
May 2021

- Developed a virtual Tanpura Simulator with 7 keys using Cinder's Audio API Library
- Designed an interactive User Interface to allow users to change pitches and Play/Pause
- Utilized C++'s Random Device to emulate natural plucking speed variations

### LCTRS

[github.com/CS196Illinois/Group6](https://github.com/CS196Illinois/Group6)

Flask, Python, GoogleOauth  
August 2020 - December 2020

- Prototyped a Natural Language Processing tool (NLP) tool to summarize lecture transcripts to assist students in online learning
- Fine-tuned the T-5 Small model on 20 lecture transcripts to summarize conversational academic content
- Designed and built a front-end user interface with Flask and Google OAuth for users to store their past summarized transcripts

## LEADERSHIP

### Association for Computing Machinery

Corporate Chair

Champaign, IL  
May 2021 - Present

- Led a team of 6 members to raise over \$10,000 to support student interest groups in ACM during the pandemic
- Collaborated with leaders in the tech industry such as the CTO of Reddit to give tech talks to students through fireside chats for UIUC students

## SKILLS

**Programming** Python, C/C++, Java, SQL, Rust, JavaScript, HTML, CSS, Kotlin, Swift (IOS Development)  
**Technologies** Git, Django, Flask, Firebase, Vim, MongoDB, AWS, REST API, REST Framework, UIKit