

Drshika Asher

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EDUCATION

University of Illinois at Urbana Champaign

Champaign, IL

Bachelors of Science, Computer Science

May 2024

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

Awards: Clare Boothe Luce Research Scholar, JP Morgan Chase WCS Scholarship Recipient (x2), Illinois CS Tapia Scholarship Recipient

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

EXPERIENCE

Microsoft

Redmond, WA

Incoming Undergraduate Research Intern

May 2022 – August 2022

Cargill

Champaign, IL

Full Stack Software Engineering Intern

Jan 2022 – May 2022

- 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

Champaign, IL

CS Student Research Scholar (CS STARS)

August 2021 - Present

- Used Natural Language Processing (NLP) and Machine Learning 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" (accepted to ACM CSCW 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+ subreddits

EnterpriseWorks

Champaign, IL

Frontend Developer Intern

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

C++, Cinder, CMake

github.com/drshika/tanpura-app

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

Flask, Python,

github.com/CS196Illinois/Group6

GoogleOauth

December 2020

- Prototyped a 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

Champaign, IL

Corporate Chair

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