Drshika Asher

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Education

University of Illinois at Urbana Champaign   *Urbana-Champaign, IL*

B.S. Computer Science   *Aug 2020 - May 2024*

- **Coursework:** Computer Architecture, 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

Experience

Cargill

Incoming Full Stack Software Engineering Intern   *Spring 2022*

Department of Computer Science   *University of Illinois*

CS Student Research Scholar (CS STARS)   *Aug 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 Cacaphony" (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+ subreddits

Computer Science Honors (CS196)   *University of Illinois*

Project Manager and Head of Social Events   *Jan 2021 - Present*

- Managed a group of 6 students to develop an Android application to track course information using Kotlin and Android Studio through an Agile setting
- Held weekly office hours and organized social events to a class of over 100 students

Enterprise Works   *Champaign, IL*

Frontend Developer Intern   *May 2021 - Aug 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*

https://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, Google OAuth*

https://github.com/CS196Illinois/Group6   *Aug 2020 - Dec 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   *Urbana-Champaign, IL*

Corporate Chair   *May 2021 - Present*

- Led a team of 6 members to raise over $9,000 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