Jessica Singh

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Education

Bachelor of Science, Computer Science, University of Illinois Urbana-Champaign, IL — Exp. 2024
High School Diploma, Tesla STEM High School, Redmond, WA — 3.9/4.0

Languages: Java, C++, Python, HTML/CSS, JavaScript/React

Work Experience

UIUC

CS 225: Data Structures Course Assistant — 08/2022-Present

- Working with students during lab hours to help them understand important data structures concepts
- Conducting office hours to help students debug their code

Autodesk — Remote

Software Engineer Intern — 05/2022-08/2022

- Developed an internal visualization tool for data exchange between platforms on the Autodesk Construction Cloud used by thousands of developers on the Datatronic team

Hack4Impact — Urbana, IL

Software Developer — 09/2021-05/2022

- Improved the web and mobile application for 7000 Languages, a nonprofit creating language learning courses, using React Native, Expo, Redux for the frontend and Node.js, Express, MongoDB, and AWS for the backend
- Developed a group study app using HTML, CSS, JS/React, and MongoDB

AI Thinktank — Bellevue, WA

Software Engineer Intern — 07/2020-09/2020

- Designed features in mobile app and website in Java/JavaScript for sign-in and profile page
- Implemented automatic video upload for uploading 500+ videos in Google Cloud database daily
- Performed data labeling for machine learning algorithms

Microsoft — Redmond, WA

Data Science Intern — 12/2019-03/2020

- Collaborated with a data scientist to analyze 20 years of longitudinal study data of Alzheimer's patients
- Learned about data visualization and machine learning algorithms

Research/Projects

2022

- Caption Accuracy Research: Generating word error rates and analyzing the accuracy of using machine learning for speech to text on educational videos with Professor Lawrence Angrave 2021

- Automated trading bot: Implemented an algorithm using a profitable trading strategy into an interactive brokers' trading platform under the Promoting Undergraduate Research in Engineering program
- Club Calendar: A mobile application to easily RSVP to club meetings, schedule and book venues, filter by interests and generate recommendations, under SIG Mobile in Association for Computing Machinery

2020

- 1st in Computational Biology and Bioinformatics for 'Early and Accurate Prediction of Onset of Alzheimer's Disease with Random Forest Algorithm'

2019

- 1st at State and National Semifinalist for ‘Nano-Hormone Biosensor detecting hormone fluctuations in saliva as an early indicator of disorders’ at HOSA 2018
- 2nd at State and National Semifinalist for ‘Automated Deep Brain Stimulation Therapy for Parkinson’s Disease: Altering electrical signal transmissions using ML’ at HOSA