

ADWITIYA SINGH

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EDUCATION

California State University, Northridge

Fall 2017 - Spring 2021

B.S. in Computer Science

Minor in Mathematics

Los Angeles, CA

Cumulative GPA: **3.88**

Dean's List: Fall 2017 - Fall 2020

College of Engineering and Computer Science Student Senator: Summer 2018 - Spring 2019

TECHNICAL SKILLS

Languages

Python, TypeScript, SQL, Java, C++, C#, LaTeX, ARM

Libraries

SQLAlchemy, React.js, Click, NumPy, Pandas, OpenMP

Software, Tools & OS

PyCharm, WebStorm, CLion, Git, Linux, Node.js, Github

WORK EXPERIENCE

Full Stack Developer

July 2019 - Present

California State University, Northridge

Northridge, CA

- Worked on the frontend and backend for the content management system for our campus chat bot. Tools used include:
 - RESTful API in python using SQLAlchemy as the ORM hosted on an AWS Lambda for the Backend
 - React.js interface for the Frontend with the API library generated using OpenAPI
 - Dialogflow integration for seamless training of the chatbot
- Wrote accessible components for our, heavily accessibility focused, in-house React Component library

Instructional Student Assistant

February 2018 - July 2019

California State University, Northridge

Northridge, CA

- Reviewed computer science class material specifically with implementation of data structures and algorithms with students to help them discover the correct answers to problems in Java
- Conducted tutorial services for students to provide academic support in computer programming

Database Architect

August 2018 - Present

UAW 4123

Northridge, CA

- Managed the members database, generated membership reports, and added new members to the database using MYSQL

RESEARCH EXPERIENCE

HCI Research

August 2020 - Present

Prof. Wen Chin Hsu

California State University, Northridge

- Built multiple layouts of the same website with different page elements being in focus
- Used the Google Analytics Suite on users from Amazon Mechanical Turk to see which layouts generate the most user interest and response

PROJECTS

Gesture User Interface

August 2019 - May 2020

[Demo Application - youtube.com](#)

Unity Developer

- A content display system that museums and other establishments can use to display 3D models of objects, wildlife etc.
- Fully gesture based navigation and controls using a LEAP motion controller. This allows for fully contact-less interactions with any kiosk, like, metro kiosks, ATMs, ordering machines.
- Written in Unity using C

ASL Discord Bot

Spring 2021

[Demo Application - youtube.com](#)

Team Lead

- Discord service that can transcribe speech, convert it into an ASL video and send it back in a text channel
- Created a python service that uses Stanford's NLP Library, Stanza, to convert from spoken english to ASL
- This project won 2nd place at CSU Northridge's Annual Accessibility Hackathon