

# ADWITIYA SINGH

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## EDUCATION

### California State University, Northridge

*B.S. in Computer Science, Minor in Mathematics*

Cumulative GPA: **3.88**      Dean's List: Fall 2017 - Fall 2020

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

Fall 2017 - Spring 2021

*Los Angeles, CA*

## 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

*California State University, Northridge*

May 2020 - Present

*Northridge, CA*

- Worked on the frontend and backend of 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
- Implemented our Laravel application that delivers XModules for digital cards for alumni membership

### Full Stack Intern

*CSU, Northridge - Web and Emerging Technology Department*

July 2019 - May 2020

*Northridge, CA*

- Designed download and data analysis features for our CMS that enables software downloads for CSUN
- Wrote accessible components for our, heavily accessibility focused, in-house React Component library

### Instructional Student Assistant

*California State University, Northridge*

February 2018 - July 2019

*Northridge, CA*

- Reviewed data structures and algorithms with upper division students and helped implement them in Java
- Conducted tutorial services for students to provide academic support in computer programming

### Database Architect

*UAW 4123*

August 2018 - Present

*Northridge, CA*

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

## RESEARCH EXPERIENCE

### HCI Research

*Prof. Wen Chin Hsu*

August 2020 - Present

*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

[Demo Application - youtube.com](#)

August 2019 - May 2020

**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

[Demo Application - youtube.com](#)

Spring 2021

**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