

ADWITIYA SINGH

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EDUCATION

California State University, Northridge

B.S. in Computer Science, Minor in Mathematics

Cumulative GPA: **3.89** 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, PHP, SQL, Java, C++, LaTeX, ARM

Libraries

React.js, neo4j, Laravel, Next.js, NumPy, Pandas, OpenMP

Software, Tools & OS

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

WORK EXPERIENCE

Full Stack Engineer

Workboard

June 2021 - Present

Northridge, CA

- Created and maintained multiple CI/CD pipelines using GitHub Actions, which published our packages to our GitHub npm registry and deployed our Storybook to an S3 bucket on AWS.
- Collaborated with designers and the internal frontend community to create generic, reusable, and accessible UI components, along with the required backend support, for our React hooks based component library.
- Migrated our canvas based group collaboration tool from a traditional backend to neo4j for a robust and low-latency experience for up to 50 concurrent users.

Full Stack Developer

California State University, Northridge

July 2019 - May 2021

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
- 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

RESEARCH EXPERIENCE

HCI Research

Prof. Wen Chin Hsu

August 2020 - Present

California State University, Northridge

- Create multiple UI-UX layouts of a webpage and 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.

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