

# SIMRANDEEP SINGH

415-939-5337  
simsinght@gmail.com

## EDUCATION

---

### University of California, San Diego

B.S. Computer Science – Theatre Minor – GPA 3.59

Graduating Dec 2019

M.S. Computer Science

Starting Jan 2020

### Awards and Honors

- Chancellor's Scholar – for demonstrating academic excellence and leadership

## EXPERIENCE

---

### Software Engineer Intern | Macy's

June 2019 – Sept 2019

- Improved Java Spring backend by adding caching and protobuf capability to endpoints, and fixing defects
- Created a REST service using Cassandra and Spring Boot to replace the existing relational database

### Software Engineer Intern | Mitchell

June 2018 – June 2019

- Created a serverless application on AWS Lambda to chain Jenkins jobs for all builds in the company
- Built website to visualize graph of project dependencies and highlight cycles using Node, Express, Docker
- Developed an application that generated and managed serverless APIs to increase adoption in company
- Used Terraform + Cookiecutter for templates, Amplify + React for the Portal UI, ECS for AWS management

### Front End React Intern | BenRevo

Nov 2017 – March 2018

- Created React Redux components replicating physical applications and wrote UI tests for complete coverage
- Built a tiered, manageable store with immutable.js and used Redux Saga to create fail safe async processes

### Tutor | UCSD CSE Department

Sept 2016 – Present

- Classes: Object Oriented Programming, Design & Analysis of Algorithms, Theory of Computability
- Held office hours explaining concepts from courses (Inheritance, Dynamic Programming, Graph Theory, etc)

### Webapps Mentor | UCSD CSE Department

July 2016 – Sept 2016

- Taught students how to build a Python App with Flask, Heroku, & OAuth; held lab hours
- Created example code and guides on setting up the database and user interface

## SIDE PROJECTS

---

### simpoll.me – Web Based Polling App

- Developed a polling app with weighted options in Meteor using JavaScript, ReactJS, and MongoDB
- Created features to delete polls, add expiration dates, and have movie polls using The Movie Database

### GLITCH – Python Desktop Application

- Image manipulation with PIL on any user input photo – with tkinter for GUI
- User has choice of functions such as seam carving, blur, shift, etc., to create glitch art – including the ability to pseudo-randomize using seeds, and apply same set of functions to different images

### @PopularOpOnion – Twitter Bot

- Python script using Twython API to generate tweets based on user or search using Markov chains

## SPECIALIZED SKILLS

---

### Languages

- JavaScript, TypeScript
- Python, Java
- C++, C

### Technical

- React/Redux
- AWS/Amplify
- Git
- Terraform
- Flask
- UNIX/Linux