

# Alex Staninger

## EDUCATION:

### University of California, San Diego

BS - Math-Computer Science

Graduated June 2018

GPA 3.5, Provost's Honors

## SKILLS:

### Languages:

Python

Java

C/C++

Haskell

Javascript

### Technologies:

Tableau

Flask

Node.js

Firebase/mysql

Android

## RELEVANT EXPERIENCE:

### Contributor | Runelite

Summer 2018

- Using **Java**, designed and wrote user-facing plugins for the open source Runescape client. Implemented chat commands features using regex, fixed bugs within the achievement diary and skill calculator plugins, added time to level and gp/xp functionalities using **Java AWT** and **Java Swing**, respectively.
- <https://github.com/runelite/runelite>

### CS video editor | UCSD CSE Department

Summer 2017

- Using Camtasia, designed and implemented videos using professor's lectures and adding annotations.
- Created videos to be used as supplement for the class 'CSE 20: Intro to Discrete Mathematics', used by over 400 students per quarter. Topics including proof strategies, number representation, base conversion, predicate logic, functions.

### Data Analyst Intern | ASIR-SDSU

Summer 2016

- Using **HTML**, designed and implemented designed website used by San Diego State University faculty and staff.
- Using **Tableau**, designed, created and edited data visualizations used by San Diego State University advisors.
- <https://asir.sdsu.edu/>, helped maintain **mysql** database

## PROJECTS:

### GenMatch | SD Hacks 2017 | **Best Use of Twilio API**

- Using **Python**, designed and implemented a web application using **Flask** and the **Twilio API** that allows users to video chat and message people with different and similar genes from their own using the **Genome Link API**.
- Used the **DocuSign API** for written permission to use their genes ethically and **Flask-SocketIO** to handle Twilio automated texting. It won best use of Twilio API because of its unique use of video API.

### SpeakOut | Cal Hacks 2017

- Using **Python**, designed and implemented a web application using **Flask** and the **Google Maps API** that allows gender, racial, sexual orientation minorities to post where they have had negative interactions, generating statistics to better inform others.
- Used **MongoDB** to store user data and used **Flask-SocketIO** to update maps in real-time.

### Planet Forest Landing

- Using **C++**, designed and implemented a program using the **OpenGL API** to view a scene with a rocket ship object and a flag made out of Bezier surfaces.
- With a team, implemented procedurally generated terrain, procedurally generated forest using L-systems, toon shading, linear fog, and added sound effects using the **Irrklang** and **OpenGL API**

### Pollcial

- Using **Java** and **XML**, designed a mobile application using **Android Studio** that allows people to create and vote on polls about decisions they don't want to make themselves using **Firebase** to store user information. Worked on a team of 10 other people.