


<div> <div>Sebastian Morgan</div> <div>Math and Computer Sciences</div> </div>	<div>  <div> <div>Website</div> <div>Github</div> <div>Email</div> <div>Phone</div> </div> <div> <div> </div> <div> <a href="https://sebastianmorgan.vercel.app/">https://sebastianmorgan.vercel.app/</a>  <a href="https://github.com/sebastianmorgan951">https://github.com/sebastianmorgan951</a>  <b>sebastianmorgan951@gmail.com</b>  <b>(951)-941-2571</b> </div> </div> </div>
<div>Skills</div>	<div>React, NextJS, Angular, Java, JavaScript, C, C++, Python, CSS, HTML, R, Git, MATLAB</div>
<div>Experience</div>	<div> <div> <div>AMF Media - Neuffluence / React Web Developer</div> <div>June - September 2021</div> <ul style="list-style-type: none"> <li>Building Neuffluence, a profile-based service connecting diverse sets of influencers to marketers</li> <li>Implemented responsive website designs to work on all devices</li> <li>Built the responsive front page for Neuffluence - view here (<a href="https://app.neuffluence.com">https://app.neuffluence.com</a>)</li> <li>Worked on the Media Kit tool, helping influencers create a resume using an interactive online template, reducing calls to our storage database from the template by over <b>90%</b></li> </ul> </div> <div> <div>oSTEM at University of California, San Diego / co-President (2021)   VP Internal (2020)</div> <div>November 2019 - Present</div> <ul style="list-style-type: none"> <li>Providing an LGBTQ-affirming space which supports students in STEM, bringing opportunities for personal and professional growth</li> <li>Rebuilt Qtorship, engaging 5 Queer graduate students as mentors for 11 mentees during Fall Quarter 2020</li> <li>Created a positive environment, giving 5 new board members the confidence to lead, and training the incoming board on better representing and supporting the entire LGBTQ+ spectrum</li> <li>Tackle problems as a leader, delegate, and organize myself</li> <li>Handling stress effectively</li> </ul> </div> <div> <div>University of California, Riverside / Entomology Lab Assistant, Dr. Byrne</div> <div>June 2019 - September 2019</div> <ul style="list-style-type: none"> <li>Collaboration within a professional environment</li> <li>Conduct complex chemical processes, such as thin-layer chromatography to process over 100 plant samples and record pesticide levels</li> </ul> </div> </div>
<div>Education</div>	<div> <div>University of California, San Diego / BS in Math - Computer Science</div> <div>September 2018 - Present</div> <ul style="list-style-type: none"> <li>Fourth-year undergraduate</li> <li>Passed courses in Linear Algebra, Discrete Math, Probability, Stats, Numerical Analysis, Data Structures &amp; Algorithms, Scripting</li> <li>3.8 Major GPA</li> <li>Anticipated graduation Spring 2022</li> </ul> </div>
<div>Projects</div>	<div> <div>HashMap Visualizer App</div> <div>March 2021</div> <ul style="list-style-type: none"> <li>Using React, JavaScript, CSS, and HTML to organize and render a visualization of a HashMap which uses Linear Probing</li> <li>Deploying the project to GitHub to be <a href="#">viewed</a> and used</li> </ul> </div>

## **Java Minecraft Modding Projects**

**December 2020 - January 2021**

- Adding new items on client-side, new randomly generated ores, building mods using gradle
- Understanding extensive Minecraft libraries, sending packets between the Client and Server
- Comically Large Spoon mod was posted on UCSD's server, has 10+ downloads and works with other mods

## **Gentrification Neural Network**

**September 2020 - November 2020**

- Learned how to build Neural Networks from scratch, using Keras, Tensorflow, and Pandas libraries
- Completed project on predicting whether certain census tracts are likely to become gentrified or not, predicting at 80% accuracy

## **Data Structures and Algorithms Projects**

**January 2021 - Present**

- Working to understand and implement basic structures as lists, sorting methods like quick sort and merge sort, Hash Maps, Binary Search Trees, and path-finding algorithms

## **2019 OFF THE GRID Hackathon, San Diego**

**May 2019**

- Worked with a team of 5, designed a program which compressed HD video. Used machine learning to correctly identify vehicles and humans within the video, as well as existing video compression techniques (H.264)

## **Java Image Compression Program**

**September 2019 - December 2019**

- Compresses images using mathematical techniques (Discrete Cosine Transforms) used in industry-grade compression software

## **Green Labs Program / UCSD GND**

**September 2019 - February 2020**

- Meeting with UCSD administration to push for eco-friendly lab certification to become mandatory, reducing wasteful lab practices