Github: ana13S <a href="https://ana13s.github.io/">https://ana13s.github.io/</a>

### **EDUCATION**

# **University of California**, San Diego — Computer Science

July 2017 - Present

Expected Graduation: JUNE 2021, GPA: **3.98** (Provost Honors for all quarters)

### **EXPERIENCE**

### **Mitchell International**— Software Engineering Intern

June 2019 - September 2019

- Formulated a proof of concept for the breakdown of monolithic JBOSS API integration services into microservice-style Kubernetes pods. Implemented traffic routing, telemetry, authentication and extensive logging of the clusters with the service mesh Istio.
- Automated the creation of **Docker** containers, the deployment of pods in Kubernetes and the routing of ingress and egress traffic with Istio using **Python** scripts.
- Developed microservice API services in JBOSS with test cases automated in Microsoft Test Manager.
- Developed file utilities in **Java** to test the mapping of data fields in XML files.

# **UCSD Computer Science and Engineering Department** — CSE 120 Teaching Assistant

September 2019 - December 2019

- Delivered lectures on class assignments to around 50 students about operating systems concepts, that included multi-threading, semaphores, system calls, memory management, virtual memory, file systems, page replacement algorithms, and process scheduling.
- Assisted students by troubleshooting student operating systems projects.

# Sysvine Technologies — Software Engineering Intern

May 2015; May 2016; May 2017

- Developed and debugged a commercial hospital management application in Java impacting around 250 patients.
- Redesigned UI in **Javascript** enterprise web applications.

### COMPETITIONS/PROJECTS

### **Road Conditions vs Accidents**

https://anai3s.github.io/road-condition-vs-accidents/

- Mined, cleaned and analyzed data on 2015 car accidents in San Diego and road conditions by mapping each accident/road to latitudes and longitudes with Google's Geocoding API in Python.
- Developed an algorithm to geospatially map each accident to a road with the haversine formula and visualized the results using geopandas.

## **SD Hacks 2018** - iOS programmer's calculator (Bitslinger)

https://devpost.com/software/bitslinger

- Developed a mobile app for bit operations with **Swift** in Xcode.
- Collaborated with designers to implement UI compatibility with different iOS devices.

## HackXX 2018 - Level Up!

https://mycscourses-438b9.web.app/

- Led the development of a Javascript web app that uses the API of online bookstores to allow users to compare the prices of Computer Science textbooks and create personalized study plans based on their budget.
- Utilized Google's Firebase to host the website and provide email authentication.

#### SKILLS

C++ Python Javascript Java C Swift SQL HTML Linux Docker Kubernetes Istio React Maven Ant Git Android Unity Angular Unreal