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

#### SKILLS

Python C C++ C# Javascript Java React Node Swift Bash SQL HTML Docker Kubernetes Istio Maven Ant Git Android Unity Angular

EDUCATION

# University of California, San Diego—Computer Science

July 2017 - Present

Expected Graduation: MARCH 2021, GPA: 3.97 (Provost Honors)

#### **EXPERIENCE**

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

September 2019 - present

- Tutoring students on the principles of operating systems including multi-threading, semaphores, system calls, memory management, virtual memory, file systems, and process scheduling.
- Debugging student projects in the instructional operating system, Nachos, with test cases written in C.

### **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 with Docker. 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.

# **Sysvine Technologies** — Software Engineering Intern

May 2015; May 2016; May 2017

- Developed and debugged a commercial hospital management application in Java.
- Redesigned UI in Javascript enterprise web applications.

#### COMPETITION/PROJECTS

## **SD Hackathon 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 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 webpages and provide email authentication.