

## EDUCATION

### University of California, San Diego

La Jolla, CA

M.S. Computer Engineering '22 | B.S. Computer Engineering '21 | Music Minor

September 2017 – Anticipated June 2022

• Cumulative GPA: 3.877

Provost Honors: Winter 2018 – Spring 2020

## PROGRAMMING SKILLS

Java | Python | C/C++ | Objective-C | SQL | JavaScript | ReactJS | React Native | Assembly | HTML | CSS | JUnit | Git | proto3 | SystemVerilog | Verilog | AWS | Mockito | Spring | NodeJS | PostgreSQL | MATLAB | Selenium | Figma | Windows | Linux

## WORK EXPERIENCE

### Snap Inc.

Santa Monica, CA

iOS Software Engineering Intern, Games/Minis Features

June 2020 – September 2020

- Working in Objective-C for iOS to develop features and fix bugs in the Games/Minis Platform on the Snapchat application
- Onboarded Snippets (Games/Minis stickers) to a new internal framework to allow for saving Snippets to Memories
- Implemented game share optimizations of pre-selecting recipients in share flow, resulting in increased share volume by 20%
- Developed new unified share card design for Games/Minis available to the 200+ million daily active users of Snapchat
- Implemented the Games/Minis Tray (rocket icon) button with deep linking functionality available in user profile chat bars

### Amazon.com

Seattle, WA

Software Development Engineering Intern, Chaos Engineering

June 2019 – September 2019

- Developed using Java Agents a new method of binding Gremlin application-level failure injection types to services, reducing burden to onboard services with Gremlin by 90% (10 hours to 1 hour), providing a total savings of 1.5k+ developer hours
- Contributed to development in maintenance and addition of new features of Chaos Engineering
- Contributed to internal Java Agent framework utilized across the company (AWS X-Ray, internal tooling, testing)

### Vocera Communications

San Jose, CA

Intern, Test Engineer

June 2018 – September 2018

- Fixed functionality issues and improved 25+% performance of the Selenium/Python test suite for the Web Console automation Agile Scrum project; recognized by VP R&D, CTO and CEO
- Developed new Selenium/Python automation scripts for testing Web Console and Voice Server interactions on Windows OS
- Designed and developed Voice Command Locale Pack Tool for test engineering; first tool to support different Locale Packs
- As assistant to SW Director, developed Excel VBA automated visualization and analytics from JIRA bug tracking dataset

### Qualcomm Institute, UCSD College of Engineering

La Jolla, CA

Web Developer

April 2018 – March 2019

- Designing and developing the institution portal with the ReactJS framework in JavaScript, HTML, and CSS.
- Developing web apps for annual workshop for the Information Theory and Applications Center at [ita.ucsd.edu/ws/](http://ita.ucsd.edu/ws/)

## PROJECTS

### “build-a-website” Course at Mar Vista High School, United Women of East Africa

March 2019 – Present

- Lead a team to create a course intended to teach students more about computer science at [tritonse.github.io/build-a-website](https://tritonse.github.io/build-a-website)
- Course teaches students how to use HTML, CSS, Bootstrap, and JavaScript to create their own professional websites

## RELEVANT COURSEWORK AND SKILLS

AWS Certified Cloud Practitioner | AI: Search and Reasoning (Python) | Computer Architecture (Assembly, SystemVerilog) | Computer Security | Operating Systems (Java, Linux) | Database System Principles (SQL) | Brain Computer Interfaces | Algorithms | Advanced Data Structures (C++) | Software Engineering (React Native, Agile) | Circuits and Systems | Analog Design | Data Science (Python) | Engineering Probability & Statistics | Computer Music

## LEADERSHIP

### Triton Software Engineering (TSE)

La Jolla, CA

President, Vice President - External, Developer

January 2018 – Present

- Oversaw the development of a ~70 member student organization aimed to impact the community by offering pro-bono technical services to 15+ non-profit organizations, as well as hosting workshops and programs for computer science education.

## LANGUAGES

English (Native Speaker), Mandarin Chinese (Fluent), Spanish