

Tanya Sonker

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EDUCATION

Santa Clara University

Bachelor of Science in Computer Science

Santa Clara, CA

Expected June 2020

SKILLS

Languages: C++, SuperCollider, HTML, CSS, JavaScript, PHP, Golang, Node.js, Java, C, Python, Scala, LaTeX, SQL

Frameworks: Git, Docker, MongoDB, Kubernetes

EXPERIENCE

Santa Clara Laptop Orchestra

Santa Clara, CA

Computer Musician, Engineering Intern, Teaching Assistant

Jan 2018 – Mar 2020

- Code synth definitions and experiment with as well as live code algorithmic compositions in SuperCollider to perform electronic music pieces for school's Laptop Orchestra [[SCLOrk](#)]
- Built a Graphical User Interface (GUI) in SuperCollider and C++ to enable mirror functionality for QuNeo.
- Designed and developed an official [website](#) for SCLOrk in HTML, CSS, and JavaScript.
- 1 of 4 students chosen to be in [Dr. Bruno Ruviano](#)'s pilot program to extend SCLOrk's performance from one quarter on-campus to the entire academic year and off-campus.
- Recruited out of ensemble as a Teaching Assistant for SCLOrk by Dr. Bruno Ruviano for winter quarter 2020.

Santa Clara University

Santa Clara, CA

Computer Science Teaching Assistant

Jan 2018 – Mar 2020

- Recruited as a Teaching Assistant, a position not open to applications, by [Dr. Natalie Linnell](#).
- Taught fundamental programming concepts and helped debug about 15 students' C++ code every lab session.
- Weekly met with and aided Dr. Linnell and another TA with CSCI 60 [Object Oriented Programming] and CSCI 10 [Introduction to C++] labs.

Mesh7 (previously Kavach at The Fabric)

Sunnyvale, CA

Software Engineer Intern

June 2019 – Aug 2019

- Rebuilt open-source project [Sock Shop](#), a microservices demo web application, for a container security startup turned Splunk portfolio company (currently being used as a [demo](#) e-commerce website to clients).
- Redesigned UI elements and developed the front-end of the revamped demo using HTML, CSS, JavaScript, and MongoDB.
- Improved the demo by designing and implementing text receipt functionality using the Twilio API, Node.js, and Golang.
- Debugged and eliminated 15 critical security vulnerabilities in package dependencies as well as added support for SQL injection vulnerability.
- Built and maintained codebase on GitHub; Distributed container images on Docker Hub.

PROJECTS

Grocery Helper

Santa Clara, CA

Front-End Developer

Sep 2019 - Dec 2019

- Built the front-end in HTML, CSS, and JavaScript for a [web application](#) (in a team of 6) to enhance one's grocery shopping experience by keeping track of items bought and estimating their expiration dates.
- Automated reminders by writing a Python script to remind users of items expiring today through desktop notifications.
- Created server-side PHP scripts to populate drop-downs of suggested categories with food items to add to a grocery list.

AWARDS

- Awarded the competitive student scholarship (full-ride) to attend the [Grace Hopper Celebration](#) 2019.
- Chosen as a [Rewriting The Code Fellow](#) for the academic year 2019-2020.