Tanya Sonker

https://tanya-sonker.github.io

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Education

- **Santa Clara University** — Santa Clara, CA
  Bachelor of Science in Computer Science — *Expected June 2020*

Experience

- **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 in stealth mode backed by The Fabric.
  - Redesigned UI elements and developed the front-end of the revamped demo.
  - Improved the demo by designing and implementing text receipt functionality using the Twilio API.
  - Debugged to eliminate critical security vulnerabilities in package dependencies.
  - Added support for SQL injection vulnerability.
  - Built and maintained codebase on GitHub; Distributed container images on Docker Hub.
- **Santa Clara University** — Santa Clara, CA
  Computer Science Teaching Assistant — *Jan 2018 – June 2019*
  - Taught programming concepts and helped debug about 15 students' C++ code every lab session.
  - Weekly met with and aided Dr. Natalie Linnell and another TA with CSCI 60 [Object Oriented Programming] and CSCI 10 [Introduction to C++] labs.
  - All SCU undergraduate courses are taught solely by faculty and so, students can only be hired as Lab Teaching Assistants.
- **Santa Clara Laptop Orchestra (SCLOrk)** — Santa Clara, CA
  Computer Musician — *Jan 2018 – Present*
  - 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).
  - 1 of 4 students chosen to be in Dr. Bruno Ruviaro's pilot program to extend SCLOrk's performance from one quarter on-campus to the entire academic year and off-campus.
  - Collaborate with Google developers and local musicians on compositions.
  - Diversify ensemble by referring prospective female ensemble members.

Projects

- **R F Kennedy Elementary School** — San Jose, CA
  Sound Design Workshop Creator — *Feb 2019*
  - Developed and conducted a workshop on Granular Sampling with 24 of R F Kennedy Elementary's 5th and 6th graders.
  - Created the code for each sample which included creating a synth definition to load audio samples and Pbindefs to define parameters to control aspects of samples like playback rate, duration, etc.
  - Developed workshop to adapt to restraints introduced by a lower socio-economic environment such as a lack of computer literacy, loudspeakers, headphones, and strong internet connection.

Programming Skills

- **Languages**: Proficient in C++, SuperCollider; experience with: HTML, CSS, JavaScript, Golang; previously used: C, Java, Python, Scala; familiar with: MySQL, LaTex
- **Technologies**: Experience with: Node.js, Bootstrap, Docker, Git, MongoDB; familiar with: Kubernetes

Awards

- Awarded the competitive student scholarship (full-ride) to attend the Grace Hopper Celebration 2019.