

SUHEL KESWANI

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EDUCATION

Georgia Institute of Technology

B.S Computer Science, Minor in Music - 3.90 GPA, Dean's List

2021 – 2024

Atlanta, Georgia

- Threads (Areas of Concentration): Intelligence & Media
- Activities: Jazz Combos - 1st chair guitarist & soloist

Irvington High School

High School Diploma - 3.85 GPA

2017 – 2021

Fremont, California

- Activities: Jazz Ensemble, VEX Robotics, Water Polo

RELEVANT COURSEWORK

- Data Structures & Algorithms
- Object-Oriented Programming
- Linear Algebra
- Discrete Mathematics
- Calculus 1 & 2
- Music Theory I

SKILLS & TECHNOLOGIES

- Java
- Python
- Sound & Music Computing
- Django, HTML, & CSS

RESEARCH EXPERIENCE

Georgia Tech VIP Program - Robotic Musicianship [↗](#)

2022 - 2023

Undergraduate Researcher

Atlanta, Georgia

- Selected to work with the Robotic Musicianship Vertically Integrated Project team under Dr. Gil Weinberg starting in the Fall 2022 semester

Santa Clara University Laptop Orchestra (SCLOrk) [↗](#)

2020

Open-Source Development & Research Intern

Santa Clara, California

- Edited, optimized, documented, & published double bass synthesizer model definition with Dr. Bruno Ruviano to SCLOrkSynths code repository, an official SuperCollider quark

PROJECTS

Votr [↗](#)

2021

- Won 3rd place in the NSA Secure Code challenge at Georgia Tech's 2021 HackGT hackathon
- Created a proof-of-concept for a secure & accessible online election
- Built a blockchain data structure in python to maintain an immutable & anonymous record of verified ballots
- Implemented a web-app to interact with blockchain with React.js, Django REST Framework, HTML, & CSS

BandMate [↗](#)

2020

- Programmed autonomous computer-generated jazz accompaniment system in SuperCollider
- Reads parameters in real-time with GUI including tempo, key, accompaniment rhythm, & chord progression
- Features a mixer with volume sliders for master, accompaniment, & percussion along with buttons to cut & queue in accompaniment & percussion
- Implemented audio recorder to allow recordings in .mp3, .aiff, & .wav formats

Chord Crafter [↗](#)

2020

- Programmed software MIDI Instrument with SuperCollider that outputs data into a Digital Audio Workstation (DAW) for sound synthesis
- Converts standard chord notation to an array of MIDI note numbers
- Implemented GUI allows for notation of extended chords up to the thirteenth scale degree with inversions

Auctions [↗](#)

2020

- Created mock e-commerce website with Django, BootStrap, Python, HTML, & CSS
- Implemented features for user registration, bidding on other users' listings, leaving comments on listings, adding listings to watchlists, & creating listings