

Sachin Iyer

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Education

New York University, New York (B.S. Computer Science)

Aug 2020 -

Present

Courses: Data Structures and Algorithms, Calculus II, Writing I, and two general engineering courses

De Anza College, Cupertino

Sept 2019 - Jan 2019

Courses: Java, C++ and Electronic Music

Basis Independent Silicon Valley (BISV), San José — HS Diploma

June 2019

Courses: Computer Science AP; Calculus AB, BC AP and Multivariable Calculus; English Literature and Language AP; World History, US History, European History, and US Government & Politics AP; Physics 1, 2 and C AP; Environmental Science AP, Statistics AP, Micro and Macro Economics AP, Chemistry Honors, and five years of Latin

Certifications

Stanford Machine Learning by Andrew Ng

July 2020

AWS Fundamentals Specialization

June 2020

Skills

Knowledge in Python, Javascript, HTML/CSS, C++, (e)Lisp, RobotC, AutoCad, Fusion, Photoshop, Illustrator, Supercollider, Tidal, AWS Cloud, Emacs, Bash, and Machine Learning Algorithms.

Current Projects

Synesthesia Visualizer

August 2020 - present

Create a visualizer that mimics the experience of Auditory Visual Synesthesia, with audio analysis libraries such as librosa and through the use of pitch recognition algorithms such as Yin (modified version of the autocorrelation function) and frequency spectral analysis. Utilizes serverless infrastructure and Augmented Reality with WebGL.

Electronic Trombone

June 2019 - present

Engineer a midi controller in the form of a trombone using Arduino to apply standard instrument knowledge to electronic applications.

Algorithmic Compositional Development

June 2019 -

present

Develop software to create music with computational platforms in order to expand the flexibility of coding to today's methods of electronic music development.

Audio Modulation and Synthesis Foot Pedal

June 2020 - present

Use Arduino to create a foot pedal that takes Midi input into an analog synthesizer, modulates input with basic audio effects from chorus to reverb, and outputs Midi CC. This was to reduce costs and not have to carry 3 different devices.

Delivery Service

June 2020 - July 2020

Created a web crawling service to send an sms message whenever there is a delivery slot available for Whole Foods, Costco, or Safeway. Used AWS SNS, serverless infrastructure with ECS and Lambda Functions, and selenium/beautiful soup.

Selected Experience

Aruba HPE, Santa Clara — *Paid Summer Intern*

June - August 2019

Official title: Cloud QA intern. Estimated Time Series Bandwidth using AI tools such as Facebook Prophet and Auto-ARIMA.

KIPP Academy Robotics Team, San José — Team mentor

June 2019 -

June 2020

Mentored and created an engineering course curriculum for 9th and 10th grade students at two schools in East San Jose.

BISV Robotics, San José — *Chief Engineer*

2018

Responsible for parts procurement, marketing, and mentoring eight robotics teams (over 60 students) on robot development (mechanical, electrical and software engineering) and other soft skills. Bridged the transitional year between club directors.

Musician, San José — *Performing Artist*

2016-2019

Member of the Stanford Jazz Summer Camp, California Youth Symphony, BISV School Band, San José Youth Philharmonic, San José Jazz Ensemble, Miles Ahead Big Band, and Electric Indo-infused Jazz Trio. Solo Music under the name Sunthetica.