Saurabh Narain

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Education

University of California, Berkeley   **August 2019 – Expected May 2023**

B.A. Computer Science | College of Letters and Sciences

- Activities: Open Computing Facility, Pioneers in Engineering
- Relevant Coursework: Structure and Interpretation of Computer Programs, Data Structures, Designing Information Devices and Systems, Research and Data Analysis in Psychology

Mission San Jose High School   **August 2015 – June 2019**

9th – 12th Grade

- GPA: 3.9/4.0
- Activities: Alameda County Science and Engineering Fair, FIRST Tech Challenge

Related Experience

General Manager   **December 2020 – Present**

Open Computing Facility at University of California, Berkeley

- Internal Committee Head, Communications Committee Head in past (June 2020 – Present)
- Maintained services such as site hosting during lab closure
- Organized staff meeting, internal socials, and events for staff members
- Focused on improving current communications to staff members

Speaker and Demonstrator   **May 2014 – May 2019**

Bay Area Maker Faires

- Shared homemade robots to the public at various Maker Faires around the Bay Area
- Robots were made using LEGOs and programmed in LabView

Computer Science Intern   **June 2018 – August 2018**

Bitwise Academy

- Created educational curriculum to teach Drone Programming to several hundred students
- Created media such as videos and visual advertisements to market curriculum
- Developed business strategies on how to reach out to specific target groups and increase enrollment

Robotics Team Captain   **August 2013 – May 2018**

FIRST Tech Challenge

- Motivated children to pursue paths related to technology
- Used ROBOTC and Android Studio to program a robot to do tasks autonomously
- CAD Modeled robots using PTC Creo to run simulations allowing for faster development

Science Fair Participant   **March 2014 – March 2018**

Alameda County Science and Engineering Fair

- Programmed various microcontrollers to record sensor data and upload it to an IoT server
- Wrote code in MATLAB to process data and project potential trends

Selected Independent Projects

OCF Printlist   **September 2019 – February 2020**

Web app that displays printing queue of the Berkeley Open Computing Facility Lab

- Allows hundreds of students in the OCF lab to see the status of their printing job
- Languages and Technologies Used: Flask, Redis pub/sub, Gunicorn, Docker, Kubernetes

Wearable Device to Monitor and Predict Sudden Cardiac Arrest   **June 2016 – March 2017**

Wristband that monitors pulse wave of heart using PPG pulse sensor

- Used PPG pulse sensor and ESP8266 microcontroller to send pulse data to a cloud server
- Processed pulse data in the cloud using Poincaré Plots to detect potential onset of cardiac arrest

Skills & Interests

- Languages/technologies: Java, Python, C++, Bash, Vim, Redis, Flask
- Design: Autodesk Fusion 360, Adobe After Effects, Adobe Photoshop, Final Cut Pro

Honors & Awards

- FIRST Tech Challenge World Championship Participant   May 2018
- NASA Earth System Science Award   March 2018
- Alameda County Science and Engineering First Place in Category   March 2015, 2016, 2017, 2018
- Ron Orta Award for Excellence in Science   March 2017
- Level 3 Technology and Innovation Award   March 2016