## Anchal Srivastava

Computer Engineering and Computer Science Undergraduate Student

+1 408 368 3135 anchalsr@usc.edu Los Angeles, California

www.linkedin.com/in/anchal-srivastava-43b97523b

## **EDUCATION**

University of Southern California, Viterbi School of Engineering

Los Angeles, CA 08/2022-Present

Adrian C. Wilcox High School, Santa Clara, CA 08/2018-06/2022 Degree: Computer Engineering and Computer Science Cumulative GPA - 3.03 $2^{nd}$  Year GPA (Fall Semester) - 3.26

GPA - 4.00

AP Scores: AP Computer Science A - 5, AP Calculus BC - 5, AP

Biology – 4, AP Psychology – 4

# **SKILLS**

Technical: Microsoft Suite, Video-editing, Vinyl Cutting, 3D Printing, CAD (Fusion 360), Laser Engraving, Adobe Creative Cloud, Arduino, Raspberry Pi (with GrovePi Sensors), Linux Command Terminal, Docker, GitHub

Programming Languages (Intermediate): C++, C, HTML/CSS, Python, Java

Programming Languages (Beginner): Java Script, R, Ruby

Relevant Courses: Intro to Programming, Data Structures and Algorithms, Intro to Embedded Systems, Discrete Methods in Computer Science, Intro to Algorithms and Theory of Computing, Distributed Systems and the Internet of Things, Intro to Web Development, Principles of Software Development, Introduction to Digital Circuits, Introduction to Computer Networks

Languages: English, Hindi

## **EXPERIENCE**

## Leadership

Wilcox Robotics (Wilcox High School, August 2018 - May 2022)

- Competed in First Tech Challenge
- Role: Hardware + Business Lead
- Co-Captain of Roblivion (Junior Robotics Team) August 2019
- Co-Captain of Robopocalypse (Senior Robotics Team) July 2021

Girls Who Code (Wilcox High School, May 2021 - May 2022)

- School club dedicated to close the gender gap in computer science
- Role: Lead Mentor
- Held a summer camp for elementary and middle school girls, to teach Scratch, HTML/CSS, and Python
- Worked with Inbaya
  - Inbaya makes biodegradable bags by Indian tribal women
- Outreach with school to increase the sales of these bags

# Research

Center for Undergraduate Research in Viterbi Engineering (2022 – Present)

- Lab: Laboratory for Design of Medical and Analytical Devices (MADLAB under USC's Biomedical Engineering Department)
  - o August 2022 May 2023
  - o Project: Smart health management: A point-of-care diagnostic tool for vitamin-D detection
  - Develop graphene-based electrodes by laser-engraving for electrochemical detection of ascorbic acid
  - O Characterized laser engraved electrodes through cyclic voltammetry and differential pulse voltammetry scans using Potentiostats
- Lab: Khan Lab (part of USC Institute for Technology and Medical Systems (ITEMS))
  - o August 2023 Present
  - Development of electrochemical transistors for sensing analytes in bodily fluids
    - Focus on detecting neurotransmitters Serotonin and Dopamine
  - Fabricate and characterize the electrochemical transistors and on-body testing

#### **AWARDS**

## **CURVE FELLOWSHIP – 2022-Present**

Center for Undergraduate Research in Viterbi Engineering, USC

# AP SCHOLAR AWARD - DISTINGUISHED

College Board - 2021 & 2022

#### ACADEMIC ACHIEVEMENT

Wilcox High School, 2020

- In AP Computer Science Principles
- Award recipient is chosen by subject teacher, based on the mastery of the subject

# HIGH SCHOOL ROBOTICS:

## JUDGES CHOICE AWARD - 2019

• Given to the team recognized for uniqueness and outstanding efforts

# CONNECT AWARD - 2021

• Given to the team that most connects with local STEM community

## **INSPIRE AWARD - 2021**

 Given to the team that embodies FIRST Tech's values and qualifies to the Northern California Regional Championship

# HEALTHIER KIDS FOUNDATION 2ND ANNUAL ESSAY CONTEST WINNER – 2018

Santa Clara, CA

• Prompt: What Does Health Mean to You?

## SANTA CLARA DISTRICT SCIENCE FAIR-BLUE RIBBON - 2018

• The highest level of award given based upon the judges' evaluation of the student's project