

# Kaushik Tandon

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**Objective:** Motivated college sophomore aiming to use his coding experience in a computer programming internship

## EDUCATION

**University of Southern California, Viterbi School of Engineering** Los Angeles, CA  
*Computer Engineering and Computer Science, GPA: 3.93* May 2021  
Relevant Coursework - CS104: Data Structure & Object Oriented Design, EE109: Introduction to Embedded Systems

**Monta Vista High School** Cupertino, CA  
*GPA: 3.83* June 2017  
Relevant Coursework - 8 AP classes, took classes at community colleges (Physics 4A, Statistics, C++, Javascript)

**SKILLS:** C++, Python, Java, Machine Learning, SQL, Data Science, Arduino, Android, HTML, CSS, ROS

## EXPERIENCE

**USC Interaction Lab** December 2017 – Present

- Worked on In-Home Socially Assistive Robots that increase a person's motivation for doing physical activities
- Became familiar with Robot Operating System (ROS)

**TechLab Education (Start-up company in San Jose, CA)** June 2017 – August 2017

- Developed Machine Learning content to teach high school students

**COSMOS UC Davis (California State Summer School for Math & Science)** July 2016 – August 2016

- Part of Quantum Mechanics & Applications to Nanotechnology Cluster
- Wrote code on Arduinos. Led the coding effort on my team to make a Scanning Tunneling Microscope

## LEADERSHIP & INVOLVEMENT

**USC Organizations** August 2017 - Present

- Logistics Lead for USC HackSC Junior
- Active participant in USC Vex Robotics, USC ACM, USC IEEE, and USC AAI

**Yearbook** August 2014 – June 2017

*Managing Editor*

- Head editor of Monta Vista's Yearbook - Trained a group of 25 students and reviewed every page
- Previously Senior Ads Editor in 2015-16 and General Staff Member in 2014-15

**Science Olympiad** October 2013 – June 2017

*Vice President of Team Management, Team Member*

- Mentored Monta Vista's Science Olympiad 5 teams, enhanced overall group effort
- Previously Vice President of External Affairs in 2015-16, Treasurer in 2014-15

## PROJECTS

**HackTech 2018: FacePay – A Facial Recognition Payment System**

- Used Microsoft Cognitive Services API, Amazon AWS Rekognition API and Walmart Search API

**SB Hacks 2018: Smart Fridge of Greatness – An IOT Fridge That Suggests Recipes**

- Used Machine Learning image recognition API, stored items in Firebase and got recipes from RecipePuppy API

**Science Fair Project: H.A.W.K. Machine Learning Algorithm for Hate Speech Detection**

- Honorable Mention, Engineering Category, Synopsys Science Fair

**Science Fair Project: Handwashing Hound: Computer Vision System to Monitor Hand Hygiene**

- Young Mind Awards Finalist in Research and Development Category
- 2nd Place, Engineering Category, Synopsys Science Fair

**Science Fair Project: Parking Pigeon: Android App for Enhanced Localization in Multi Story Parking Lots**

- Regional Finalist, Google Science Fair - Top 10 in age group in North/South America
- Honorable Mention, California State Science Fair
- 1st Place, Engineering Category, Synopsys Science Fair