

Kaushik Tandon

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Objective: Motivated college senior pursuing a full-time software engineering position

EDUCATION

University of Southern California, Viterbi School of Engineering Los Angeles, CA
Computer Engineering and Computer Science, GPA: 3.76 May 2021
Relevant Coursework – Algorithms, Artificial Intelligence, Robotics, Operating Systems, Embedded Systems

Monta Vista High School Cupertino, CA
GPA: 3.83 June 2017

SKILLS: C++, Python, Java, SQL, JavaScript, HTML, CSS, C, Machine Learning, Verilog, ROS

EXPERIENCE

Google (*Software Engineering Intern*) May 2020 – August 2020

- Designed and implemented metrics for Google Photos inferred location computation

Google (*Software Engineering Intern*) May 2019 – August 2019

- Added backend signal in C++ to improve in-app conversion tracking of users for Google Hotel Ads
- Enabled support of new bid adjustment and smart bidding metrics for partner advertisers
- Built offline pipeline to automatically update files in Google's codebase

The Brane (*Knowledge Graph Manager Intern*) June 2018 – March 2019

- Built scraper in Python to extract important information from thousands of Artificial Intelligence topics
- Led team and development of pipeline to convert large NASA dataset into a combined one million nodes and edges

Seqwa (*Data Science Intern*) June 2018 – August 2018

- Analyzed product for potential sources of data to collect to understand user
- Wrote reports and researched methods to programmatically generate narratives and insights for the user's data

USC Interaction Lab (*Research Assistant*) January 2018 – May 2018

- Implemented idle behaviors for In-Home Socially Assistive Robots that encourage and motivate elderly to exercise

LEADERSHIP & INVOLVEMENT

Course Producer August 2019 - Present

- Lead lab section for introductory computer science class CSCI 102. Hold weekly office hours + grade assignments

HackSC Junior August 2017 – August 2019

- Organized hackathons for 300 middle school and high school students, exposing many to coding for the first time

USC Organizations August 2017 - Present

- Active member in USC Data Science Club, USC ACM, USC IEEE, USC AAI, and Ping Pong Posse

PROJECTS

FacePay: A Facial Recognition Payment System

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

Parallelization of Viola-Jones Object Detection Algorithm

- Decreased training runtime by 10%, worked with 2 people on developing and implementing algorithms

ScheduleMe: Web Application to Automatically Generate Valid Class Schedules

- Built application with 5 others, focused on backend development and database structure

H.A.W.K. Machine Learning Algorithm for Hate Speech Detection

- Won Honorable Mention at Synopsys Science Fair

Handwashing Hound: Computer Vision System to Monitor Hand Hygiene

- Young Mind Awards Finalist in Research and Development Category

Parking Pigeon: Android Application for Enhanced Localization in Multi Story Parking Lots

- Regional Finalist, Google Science Fair - Top 10 in age group in North/South America