

CHIRAG SINGH

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EDUCATION:

University of California, Los Angeles (UCLA)

Los Angeles, California

GPA: 4.00 overall, 4.00 major

Expected 2024

Computer Science and Engineering, B.S.

National Merit Scholarship Recipient

Alumni Scholarship Recipient and Club Member

Troy High School

Fullerton, California

Valedictorian (4.89 GPA weighted, 4.00 unweighted)

Graduated May 2020

SAT: 1590/1600, SAT II Math, Physics, Chemistry: 800/800

4 yrs. honors and AP classes including AP/IB Computer Science, Linear Algebra, Multivariable Calculus, and AP Physics C

3 year varsity athlete and soccer team captain

EXPERIENCE:

UAS (Unmanned Aerial Systems) at UCLA

September 2020-Present

Developed camera simulation script in Python as part of NASA Undergraduate Student Research Challenge (USRC) project

Worked as part of software team on computer vision docking software for NASA USRC project

Boeing Company

Seal Beach, California

Systems Engineering Intern

June 2019 - August 2019

Performed complex computer simulations and cost-benefit analysis of missile defense systems with Systems

Toolkit Simulation software

Identified missile defense architecture changes capable of increasing interception success rates by up to 41%

Presented findings to group of Boeing engineers as proof of concept of developing technologies

Collaborated with group of 8 interns to provide IT support for internship program of over 70 interns

Android App Development

July 2018 - Present

Designed, created, programmed (using Java and XML), and published 3 apps to the Google Play Store with over 668 combined lifetime downloads

Basketball Shot Predictor: Trained a neural network on 1 million+ NBA shots to predict percent chance of made shot, created user interface to visualize last 7 years of NBA shots

Music Updater: Accesses Deezer music API to notify user of new music from user-selected artists

Debate Tools: Suite of tools including custom timer and web integration for speech and debate competitors

Dunkin Donuts

Tustin, California

Crew Member

July 2020 - September 2020

Clearly communicated with customers to ensure positive experience in high-volume store

Took initiative to improve store inventory control and organization during lower-traffic shifts

Mastered computer point-of-sale (POS) system to serve customers efficiently and accurately in fast-paced rushes

Code Open Sesame Coding for Kids

Tustin, California

Volunteer Coordinator

September 2018 - March 2020

Taught basic computer and coding skills to over 20 children at local homeless shelters

Responsible for orienting 5-6 new volunteers per session

SKILLS:

Proficient in Java programming language (4 years experience)

Familiar with XML-based frontend Android App design (3 years experience)

Familiar with supervised learning and artificial intelligence (AI) algorithms (1 year experience)

Familiar with Python programming language

Familiar with Agile SDLC Model

Certified Associate in Solidworks (2017) CAD software

Certified Expert in Systems Toolkit 11.6 simulation software

Strong interpersonal and communication skills

Intermediate spoken and written Spanish