

# CHIRAG SINGH

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## EDUCATION:

### University of California, Los Angeles (UCLA)

*Computer Science and Engineering, B.S.*

National Merit Scholarship Recipient

Alumni Scholarship Recipient and Club Member

*Los Angeles, California*

*Expected 2024*

### Troy High School

*Valedictorian (4.89 GPA weighted, 4.00 unweighted)*

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

*Fullerton, California*

*Graduated May 2020*

## 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

Developed and improved Chromebook-based curriculum for most advanced students

## SKILLS:

Proficient in Java programming language (4 years experience)

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

Familiar with basic 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