ADHYYAN SEKHSARIA

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Mumbai/Los-Angeles

Education

University of Southern California: Viterbi School of Engineering - Computer Science. Applied Math, Expected Graduation: May 2022. GPA: 4.0

Dhirubhai Ambani International School, India: IB Diploma: 41/45

Relevant Coursework: Advanced Algorithms (Doctorate level), Embedded Systems, Software Dev.

Skills: C++, C, Java, Python, JavaScript, Machine Learning, AI, Optimization, Problem Solving

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OLYMPIAD
2016-Present

ACM-ICPC AND INTERNATIONAL OLYMPIAD IN INFORMATICS
Rank 2 in ICPC Southern California Regionals. Qualified for NA Championships
Selected to represent India in IOI 2019 and 2018. 90+ countries participated
Silver medal in IOI 2019 at Azerbaijan amongst 500,000 students across the world

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ROCKETRY
2019-Present

USC ROCKET PROPULSION LAB
First student organization to reach space. Part of Avionics Team.
Lead in charge of Code Optimization.
Increased telemetry rate by 300% using smarter encoding and compression.
Making an IMU Sensor with FPGA to get high accuracy inertial measurements.
Made GPS Driver for the MBed Platform. Open Sourced: https://bit.ly/3380exg

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INDEPENDENT WORK

DEVELOPMENT AND COMETITIONS
Built a chrome extension which tracks statistics for a poker website. 150+ weekly users
Trojan Hacks 3rd place. USC Schedule Maker. https://uschedulify.herokuapp.com/
Started 'Buddy System' to make coder meet other coders. 400 registrations.

INTERNSHIP
Summer 2020

SWE AT ENTERCOMS, BARCELONA. REMOTE
Built a genetic algorithm to find the efficient allocation of hubs in a supply chain.
Allows businesses to decrease cost by entering in specific parameters.

INTERNSHIP
Summer 2019

HERE TECHNOLOGIES, HIGHLY AUTOMATED DRIVING
Aided in development of tools used to make lane marking and 3D landmarks
Used Spring Framework, Docker, AWS integration, MySQL, JDBC and Java.

ROBOTICS
2015- 2019

CAPTAIN OF *FIRST* ROBOTICS TEAM– R FACTOR 6024
Head of programming, sponsorship and drive sub-teams.
Raised $150,000 over 4 years from various sponsors.
Initiated new FRC team in my school. Coding mentor team for 10 ppl.
Won Rookie All-Star Award at World Championship (Detroit, USA).

VOLUNTEER WORK
2016- Present

HELPING THE COMMUNITY
Hosted 6 competitions on CodeChef to spread coding culture amongst schools.
Involved in setting problem, test-data, writing editorials. 700 total participants.
Streamed contest discussions on YouTube. 10,000 streams/views.
Conducted a 5-day workshops in Mumbai teach basic algorithms and DS.
Organized FIRST Lego League Mumbai, and other competitions to promote STEM