Curriculum Vitae

Vishnu Iyer

Summary My name is Vishnu Iyer and I am a freshman in EECS at UC Berkeley. My interests include robotics, artificial intelligence, and theoretical computer science. I also like exploring physics, mathematics, and other natural sciences.

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Education

Undergraduate: UC Berkeley

Program: EECS (B.S.) **Expected Graduation:** 2020 **GPA:** 3.90/4.0

Previous Relevant Courseload

- CS 61A: Structure and Interpretation of Computer Programs
- EE 16A: Introduction to Designing Information Systems and Devices I
- Math H54: Honors Linear Algebra and Differential Equations

Current Courseload

- Physics 7B: Thermodynamics and Electromagnetism for Scientists and Engineers
- Math H53: Honors Multivariable Calculus
- CS 61B: Data Structures and Algorithms
- CS 70: Discrete Mathematics and Probability Theory
- EE 16B: Introduction to Designing Information Systems and Devices I

Secondary School: Dulles High School

Test Scores

SAT: 2350
SAT Math II: 800
SAT Physics: 800
SAT Chemistry: 800

Courses of Interest

- Scientific Research and Design: Completed a year long independent research project and learned various techniques in scientific research. item Multivariable Calculus: Introduction to integral and differential calculus in multiple variables, as well as vector calculus theory.
- Modern Physics: Introduction to special relativity, statistical mechanics, particle physics, quantum mechanics, and important mathematical tools in modern physical analysis.

- Organic Chemistry: Introductory course covering chemical phenomena of various organic functional groups and reactions of particular significance.
- Advanced Biotechnology: Exposition to research techniques in modern biology as well as practice reading and analyzing scientific research in various fields of science.

Honors at Graduation

- Magna cum Laude: GPA at graduation put me in the top 5% of my graduating class.
- Math and Science magnet program graduate: Completed advanced courses in math and science (see above) with high standing.
- National AP Scholar: Took 8 or more Advanced Placement exams and received a score of 4 or above on all of them, with an overall average of about 4.75.
- National Merit Scholar: High PSAT score qualified me for the National Merit Scholarship program.

Awards

2015 National Science Bowl: Placed 1st regionally and 7th nationally in team buzzer-style competition covering various subjects in math and science. Specialized in math, physics, and biology.

2016 Physics Bowl: Placed first as an individual regionally and team placed 1st nationally in written test covering physics concepts from basic mechanics to modern physics.

2015 AIME: Qualified for the American Invitational Mathematics Examination and placed in the top 25 percent of competitors.

2016 TMSCA: On the first place statewide team for 4 consecutive years in Texas Math and Science competition. Placed in top ten individually in mental math and general science events.

2016 UIL: Member of the first place science and second place mental math team for statewide academic competition. On overall 1st place team in 2015 and 2nd place team in 2016.

2013 Robotics: Placed 5th overall in open robotics competition hosted by Instructables.

2015 Code Day: Received Top Web Application award at Houston Code Day event.

2016 University of Houston Mathematics: Placed 2nd place at University of Houston Calculus competition among over 150 students from all around the state.

2016 IBM Watson Memorial Scholarship: Selected as an IBM Watson Scholar through intensive application process.

2016 USABO: Qualified for Semifinal round in the USA Biology Olympiad.

2015 Academic World Quest: Placed 1st regionally and 4th nationally in team current events, policy, and geography competition.

Research

2015 Schrdinger Equation: Helped researchers at Texas Southern University develop dynamic programming algorithms based on analysis of the Schrdinger Equation to investigate a novel numerical method for determining binding energies.

2014-2015 Catalytic Converters: Participated in a year-long research project at the University of Houston in which I investigated the impact of several ambient conditions on the rate of CO catalysis in a catalytic converter.

2013-2014 Android Gait: Conducted independent research on changing various parameters of robot gait on stability over short periods of time.