

# Varun Singh

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## Skills

- Full stack developer proficient in HTML, XML, CSS, JS, PHP, SQL/MySQL; with additional fluency in C, C++, Java, MATLAB, and Python
  - Trained in algorithm analysis, data structures, network administration, system administration, and robotics software
  - Experienced in employing AJAX and JQuery based solutions
- Well versed in version control software, such as Git and SVN
- Training in image processing and relevant software including Photoshop and Illustrator
- Certified in First Aid and CPR
- Fluent in English and Hindi with a California Seal of Biliteracy in Mandarin

## Awards/Accomplishments

- Frequent participant in Hackathons including Hack UCI and LA Hacks
  - Awarded "Hardest Technical Challenge" at first annual Gunn-hosted Hackathon in partnership with MakeSchools (2015)
- National Merit Scholar (top 10% of the US' scores on the NMSQT/PSAT) (2015)

## Work Experience

- Member of Dr. Sabee Molloy's Research Lab in the UCI School of Medicine (2016-present)
  - Primarily focused on CT scanner image processing and figure rendering
- Sole Webmaster of <http://www.egschools.com> (2014-Present)
  - Responsible for full-stack development and product realization under company founder
- Sole Webmaster for <http://www.clubs.uci.edu/wushuclub/> (2016-Present)
  - Responsible for site maintenance and tournament technical details, employing PHP and MySQL based solutions
- Coded the back end of Gunn Robotics Team's dynamic website (Temporary URL: <https://fierce-depths-99806.herokuapp.com/>)
- Started the "Visualizer Project" (Temporarily down for maintenance)
  - The Visualizers are a series of open-source, JS-powered projects designed to help students visualize difficult concepts in STEM fields
- Member of Gunn Robotics Team (2015-2016)
  - Managed the Gunn Robotics Team's 15-computer design lab
- Organized and taught a free course for Gunn students to learn full-stack web development at a professional level (2016)
  - Several students now act as webmasters of various organizations
- Technical lead and assistant instructor at Studiokicks Palo Alto (2013-2016)
  - Responsible for general system and network maintenance

## Education

- University of California: Irvine (2016-Present) (Current GPA: 3.795)
  - B.S. in Computer Science and Engineering, intending to dual B.S. in Nuerobiology
  - Dean's List every quarter since Enrollment
- Stanford University High School Summer College (2015)
- Henry M. Gunn High School- Class of 2016 (2012-present)
  - Department Awards in: Computer Science, Chinese, and Chemistry

*\*\*Transcripts available upon request*

## Hobbies/Misc.

- Black Belt in Wushu/Kung Fu with over 20 national-level Martial Arts Awards
  - Currently a member of UCI Wushu's A Team (Advanced Team) and Internal Vice President of the UCI Wushu Club
- Self-taught Algebra 2, AP Statistics, Chinese, Computer Science, Trigonometry
- Various side projects, including:
  - Basic Artificial Intelligence application to various situations, ranging from projectile optimization to simple logical arguments, designed to ultimately integrate with residential households
  - Minor exploratory work on "P vs. NP" Computer Problem

*\*\*\* References available upon request*