



ROBERT ENG

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PROJECTS

2015 **Personal Website**
Designed and built a virtual resume at roberteng.github.io to showcase past projects, design, and experience.

2015 **\$MARTwater**
1st Place at HacktheWater
In an effort conserve water in Pasadena, we created an application to identify household appliances that can be replaced and the resulting benefits. The app calculates both the money saved from rebates and the water saved from increased efficiency.

SKILLS

Languages: C, Python, Java, C++, PHP, HTML, CSS, Javascript, XML, Bash, Perl

Technologies: Node.js, jQuery, Django, AngularJS, Firebase, Socket.IO, MySQL, MongoDB, EJS, JSON, Bootstrap, FlatUI, Google Maps API, Outlook 365 API, Adobe Illustrator

EDUCATION

Class of 2018 **Caltech**
BS in Computer Science Pasadena, CA
Computer Language Shop C, C++ Tracks, Computer Science Research, Decidability and Tractability (Theory of Computation), Computing Systems, Relational Databases (Fall 2015), Discrete Math (Fall 2015)

Class of 2014 **Saratoga High School**
GPA 4.0, WGPA 4.6 Saratoga, CA
National Merit Finalist AP Computer Science

WORK EXPERIENCE

Speedy Packets Network **Summer 2015**
Software Intern
Tested the fairness and performance of different transport layer protocols such as TCP, SpeedyTCP, and Google QUIC under controlled and real world scenarios. Investigated packet captures of video streams and RTS games to find optimal settings for Speedy TCP.

Caltech Information **Summer 2015**
Management Systems & Services Intern
Protected against external cyber-attacks on Caltech's internal network by developing scripts to detect suspicious login activity. Performed security audits on newly deployed applications and troubleshooted network crashes. Researched the traceability of BitTorrent. Notified users of SSID vulnerabilities.

Donut Developer **Summer 2015 – Present**
Restructuring Caltech Undergraduate "Donut" website for online student services such as course scheduling, election coordination, housing assignments, directory assistance.

CS11 C Track Teaching Assistant **2015**
Assisted professor in teaching the fundamentals of C, particularly the intricacies of plugging memory leaks while helping with Makefiles, UNIX, and VirtualBox.

UC Santa Cruz Astronomy **Summer 2013**
Intern
Developed an interactive Google Maps for deep field galaxy surveys for use by the astronomical community worldwide. Authored a research paper describing the conception and development of the project for submission.