



# ROBERT ENG

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## PROJECTS

**2016** **Hacktech**  
*Co-Head Director*  
Directed 40+ person team, raised 80K from sponsors, organized logistics for Caltech's 500 person hackathon

**2015** **\$SMARTwater**  
*1<sup>st</sup> Place at HacktheWater*  
Identified household appliances that can be replaced to conserve water, calculating the resulting benefits.

**roberteng.me**  
Visit for more past projects, design, and experience.  
For github, visit username RobertEng

## SKILLS

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

**Technologies:** jQuery, JSON, React, Django, Flask, Node.js, d3.js, MongoDB, Firebase, Socket.IO, AngularJS, Knockout.js, EJS, Bootstrap, FlatUI, Adobe Illustrator, Adobe InDesign

## EDUCATION

**Class of 2018** GPA 3.5  
BS in Computer Science  
**Caltech**  
*Pasadena, CA*  
Programming Methods, Algorithms, Computing Systems, Operating Systems, Decidability and Tractability, Discrete Math, Computer Language Shop C, C++ Tracks, Computer Science Research, Relational Databases, Data Visualization

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

## WORK EXPERIENCE

**KPCB Fellow at DoorDash** **Summer 2016**  
*Infrastructure Software Engineering Intern*  
- Built a DoorDash API Client used by Ops and Local teams around the country.  
- Created new interface for database access via API  
- Chosen from among 2500 applicants as one of 57 KPCB Engineering Fellows.

**Speedy Packets** **Summer 2015**  
*Network Software Engineering Intern*  
- Measured fairness/performance of transport layer protocols (TCP, SpeedyTCP, Google QUIC).  
- Found optimal settings for SpeedyTCP with packet captures of video streams and RTS games.

**Caltech IMSS** **Summer 2015**  
*Information Security Intern*  
- Protected against external cyber-attacks on Caltech's internal network by developing scripts.  
- Performed security audits on new applications.  
- Researched the traceability of BitTorrent.

**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 fundamentals of C.  
- Helped students with Makefiles, UNIX, VirtualBox.

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