Kabir Gupta

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EDUCATION

University of Southern California: Viterbi School of Engineering   Class of 2016
B.S. Computer Science **|** Major GPA: 3.6 **|** Presidential Scholar **|** National Merit Scholar

PROFESSIONAL EXPERIENCE

Engrade - Web Development Intern   Jun. '14 - Sept. 14
Santa Monica, CA **|** *Online education platform for school districts, division of McGraw-Hill*

Parent Alerts
- Designed and built an app which allows parents to specify a threshold and frequency for receiving automatic text messages/emails when their children are not performing well in school
- Responsive front-end user interface built with PHP / HTML5 / CSS / jQuery / JavaScript
- Back End implemented with PHP / MySQL and incorporated Twilio API to send text messages

Site Optimizations
- Improved running time of a tree-traversal searching function by 90% through refactor from recursive DFS to iterative BFS
- Made certain pages load up to 60% faster by restructuring internal API functions and improving database queries

Bug Fixes / Feature Requests
- Fixed various bugs and implemented features across the site as part of an Agile development cycle

PROJECTS

Channel42 **|** *AngularJS / FireBase / Parse / HTML5*
- Developed a web app enabling users to simultaneously watch live streams of different categories of YouTube videos and chat about them in real time during the 24-hour Microsoft OpenHack Hackathon
- Incorporated the YouTube API by applying AngularJS and FireBase to implement an autoplayer that syncs users when they join a channel in progress and lets them add videos to the channel queue

Sit Together **|** *AngularJS / Parse / HTML5 / CSS / JavaScript*
- Built a web app allowing students to quickly see which of their Facebook friends are registering for the same classes so they can create similar schedules

GameFit **|** *HTML5 / CSS / JavaScript / AngularJS / Bootstrap*
- Designing and implementing an API that quantifies and analyzes users' fitness device data and allows gaming companies to provide in-game rewards accordingly in a team of three
- Built prototype landing page website to gauge interest

Lord of the Swords **|** *Java / MySQL*
- Created a multiplayer action game in a team of six with server-client communication, Swing graphics, networking abilities, and asynchronous chat functionality

O(Infinity) **|** *C++*
- Built a text-file search engine with QT front-end interface, login page, custom user profiles, recursive crawler, PageRank algorithm, and view history

SKILLS

Front End

AngularJS	HTML5/CSS	AJAX
JavaScript	Bootstrap	API Integration

Back End

Parse	MySQL	FireBase
PHP	Java	C++

LEADERSHIP

Sigma Phi Delta - Vice President   Spring '14
National Engineering Fraternity
- Helped oversee chapter operations as a member of the Fraternity Executive Board
- Managed a five-figure budget as well as planned and organized events throughout the semester