

# Gaurav Garg

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## EDUCATION

### University of California, Berkeley

Berkeley, CA

B.S. Electrical Engineering and Computer Sciences, CS GPA: 3.34

Expected May 2017

**Relevant Coursework:** [Data Structures](#) (61B - Java) | [Machine Architecture](#) (61C - C, MIPS) | [Discrete Math](#) (70 - LaTeX) | [Linear Algebra](#) (54) | [Unix](#) (9e) | [System Programming](#) (162 - C) | [Algorithms](#) (170) | [Database Systems](#) (186 - SQL, Java)

*Coursera:* Wharton Intro to Marketing, Wharton Intro to Operations Management.

**Interests:** Software Engineering | Backend Development | Algorithms & Data Structures

## EXPERIENCE

### PeerLibrary | Web Developer

Sep 2015 – Present

- Using [Meteor](#) and [CoffeeScript](#) to add features to PeerLibrary, an online academic library. Collaborating using [git](#).

### Infosys | Software Development Intern

Jun 2014 – Aug 2014

- Implemented a [JavaScript intrusion](#) alert system to detect Cross-site scripting ([XSS](#)) attacks on live web applications in real time.
- Achieved by cloning response HTMLs and adding them to process queue. Deploying headless browsers ([PhantomJS](#)) on the server ([Tomcat](#)) using JavaServer Pages ([JSP](#)). Made a basic admin portal to view the attack log.
- Presented documentation, report and tests and demoed the software for the senior team of Infosys labs.
- Awarded second runner up at the annual Infosys InStep [Business Plan](#) Competition against 122 participants from top universities. Presented on Initiating operations in Colombia and why that is a strategic move.

### CITRIS Mobile App Challenge | App Developer

Feb 2014 – May 2014

- Developer at team *HandiRoute* for the CITRIS Mobile app challenge. *HandiRoute* is an [android application](#) designed to find disabled friendly areas. Achieved by [crowdsourcing data](#) and using the [Google maps API](#).

### CS 61A Course Staff | Lab Assistant

Feb 2014 – May 2014

- Assisted students with projects, lab, homework and taught debugging techniques and best coding practices.

### Berkeley Centre for New Media | Full Stack Developer

Sep 2013 – Feb 2014

- Developer for the Web App, *Turing Test Tournament*. Used [MongoDB](#), [Node.js](#) and [ExpressJS](#) for backend and [Bootstrap](#) for frontend. Wrote a chatbot for the app using [ChatScript](#).
- Worked in a team using [git](#) and pair programming. Organized the 'Meet My Bot' hackathon to promote the website

## PROJECTS

**YouTrends Jun 2015.** Developed an [Express app](#) to graph video statistics such as view count, like count and like-dislike ratio for YouTube channels. Used YouTube data and [HighCharts API](#). Hosted on [Heroku](#). <http://youtrends.gauravgarg.me>

**Cards Against Humanity Mar 2015.** Used [MeteorJS](#) to develop [webapp](#) for the popular party game, cards against humanity. Used [MongoDB](#) to store user accounts and games. [http://cards\\_gg.meteor.com](http://cards_gg.meteor.com)

**Parallelized Breadth First Search Oct 2014.** Wrote software to strongly solve a sliding puzzle using [BFS traversal](#) to create the [game tree](#). Implemented in [MapReduce](#) model using the Apache [Spark](#) framework ([python](#)), optimized by [partitioning](#) and [hashing](#). Ran the implementation on a cluster of AWS EC2 servers. (*61C Course project*)

**YouTube Side Search Sep 2014.** Built [Chrome extension](#) that adds a search box to the sidebar on YouTube and uses the [YouTube data API](#) to allow users to search and view results on the sidebar simultaneously while watching the video.

## SKILLS

Proficient: Java • Python • JavaScript • HTML | Learning new languages & frameworks

Experienced: C • Git • Unix • SQL | Web Dev (ExpressJS, Node.js, MongoDB, MeteorJS, Bootstrap)