


# ANEESH KHERA

Backend Developer

 aneeshkhera.me

 github.com/kapleesh

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## EDUCATION

**University of California, Berkeley**

B.A. Computer Science | GPA: 3.84

Expected May 2019

**Relevant Coursework:** Efficient Algorithms, Artificial Intelligence, Discrete Math and Probability, Data Structures, Computer Programs, Linear Algebra and Differential Equations

## EXPERIENCE

### Upsilon Pi Epsilon

Berkeley, CA

Sep 2016 - Present

### Web Developer

- Maintain and improve website: <http://upe.berkeley.edu/>
- Developing a past events feature for the site in order to help students gain access to recruiter information and view highlights; Django, HTML/CSS

### Code for India

Berkeley, CA

Sep 2016 - Present

### Backend Developer

- Currently designing the backend of a web application to help educational NGOs analyze student academic performance; Django, mongoDB

### Infosys

Bangalore, India

Jun 2016 - Aug 2016

### Software Engineering Intern

- Developed the backend of an optimization engine for CSX Transportation to efficiently solve the NP-hard job shop scheduling problem; Java
- Implemented a shifting bottleneck heuristic as a part of the algorithm to minimize overall tardiness of factory locomotive repair and maximize individual station usage
- Solved the  $1 \mid r_j \mid L_{\max}$  scheme with a branch and bound algorithm that reduced time complexity from  $O(n!)$  to  $O(n^2 \log n)$
- Read and updated data from a SQL server; delivered output in the form of a Gantt chart; reduced existing makespans by over 37 hours for the average CSX job shop

### CS61A

Berkeley, CA

Jan 2016 - May 2016

### Course Lab Assistant

- Taught students programming fundamentals in python, scheme, and SQL during labs
- Helped students gain a better understanding of coding concepts such as recursion, inheritance, and abstraction

## SKILLS • TECHNOLOGIES

**Proficient** Python, Java, Rails, Scheme, Swift, Git, LaTeX

**Familiar** SQL, HTML/CSS, JavaScript, Bootstrap, Django

## PROJECTS

### Dress Me

Web application that suggests outfits based on a user's wardrobe, daily schedule, and weather; utilized the OpenWeatherMap, geopy, and google calendar APIs; implemented features to monitor laundry and give suggestions on clothing to buy/donate; Django, HTML/CSS, jQuery

### Bench Blog

Web application for bloggers to create personalized feeds on sports news; promotes blogging during matches with in-games statistics; Rails, HTML/CSS

### Text Editor

Fully functional text editor, very similar to Notepad; implemented various data structures such as Doubly Linked Lists and Stacking Arrays in order to optimize time efficiency for cursor and text display; utilized JavaFX libraries; Java

### Bear Maps

Web mapping application that parses location and routing data from XML, and rasters a front-end image from data stored in a quadtree; A\* search to route shortest path between locations and a Trie to autocomplete location searching; replication of Google Maps; Java