

# Aneesh Khera

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## EDUCATION

### UNIVERSITY OF CALIFORNIA, BERKELEY

**BACHELORS IN COMPUTER SCIENCE**  
Expected May 2018 | Berkeley, CA  
GPA: 3.84/4.00

### UPSILON PI EPSILON

#### WEB DEVELOPER

UPE is the CS honor society, extending membership to the top third of UC Berkeley CS majors

As a web developer, I maintain and improve the website:

<http://upe.cs.berkeley.edu/>

Last semester, I developed a Past Events feature to give students access to recruiter information and view highlights from previous info-sessions; Django, HTML, CSS

## SKILLS

### PROFICIENT

Java • Python • Rails • Scheme  
iOS / Swift3 • Git • LaTeX

### FAMILIAR

SQL • HTML • CSS • JavaScript  
Bootstrap • MATLAB • Django

## COURSEWORK

### PROGRAMMING

Artificial Intelligence  
Data Structures  
Ruby on Rails  
iOS Development  
Structure of Computer Programs

### THEORY / MATHEMATICS

Efficient Algorithms  
Discrete Math & Probability  
Linear Algebra & Differential Eqns

## LINKS

[github.com/ kapleesh](https://github.com/kapleesh)  
[linkedin.com/in/ aneeshkhera](https://www.linkedin.com/in/aneeshkhera)

## EXPERIENCE

### INFOSYS | SOFTWARE ENGINEERING INTERN

Jun 2016 – Aug 2016

- Developed the backend of an optimization engine for a client, CSX Transportation, to efficiently approximate the NP-hard job shop scheduling problem; Java
- Implemented a shifting bottleneck heuristic to minimize overall tardiness of factory locomotive repair and maximize station usage
- Solved the 1 | Rj | Lmax 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, delivering output in the form of a Gantt chart; reduced existing makespans by over 37 hours for the average CSX job shop

### CS61A | ACADEMIC INTERN

Jan 2016 – May 2016

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

### USC KECK SCHOOL OF MEDICINE | SOFTWARE ANALYST INTERN

Jun 2014 – Aug 2014

- Learned a computational biology software, MITOSym, to analyze mitochondrial data collected from the liver
- Utilized MATLAB to create functional models, formulate approximate oxygen intervals, and perform regression analysis
- Trained fellow lab researchers to use relevant data to construct large-scale graphs and predictive charts

## PROJECTS

### DRESSME | DJANGO, HTML, CSS, JAVASCRIPT

- Built a 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 recommend new clothing

### BENCH BLOG | RAILS, HTML, CSS

- Developed a web application for bloggers to create personalized sports feeds; promotes blogging during matches with in-game statistics

### TEXT EDITOR | JAVA, JAVAFX LIBRARIES

- Built a fully functional text editor, very similar to Notepad
- Implemented various data structures such as Doubly Linked Lists and Stacking Arrays to optimize time efficiency for cursor and text display

### BEAR MAPS | JAVA

- Created a web mapping application that parses location and routing data from XML, and rasters an image from data in a quadtree
- Utilized A\* search to route shortest path between locations and designed a Trie to autocomplete searches; replication of Google Maps