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
Boostrap • 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**
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