ANEESH KHERA

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Education

University of California, Berkeley **Expected Dec 2018**

GPA: 3.74 | B.A. Computer Science

Upsilon Pi Epsilon - CS Honor Society

Select courses: machine learning, data science, operating systems, algorithms, databases, security, networking

Interested in: product engineering, scalabable system design, scheduling algorithms, traffic flow theory

Experience

Lyft, *Software Engineering Intern* **Summer 2018**

- Built a notification system in Python to send scheduled alerts regarding a driver's progress towards weekly goals
- Designed and implemented a pipeline to automate bulk notification jobs through several Lyft microservices
- Developed a primetime reminder support tool to increase driver productivity for the when-to-drive feature
- Integrated and improved Lyft's localization and translation libraries across the entire team's server-side codebase

Okta, *Software Engineering Intern* **Summer 2017**

- Built a robust pipeline in Java for self-serviceable apps, giving users access to software without admin approval
- Created a stable workflow for admins to configure missing default attributes and sign-on modes for applications
- Designed a profile verification system for provisioning of end users when self-servicing org-managed resources
- Integrated self-service with existing app approval workflow settings using a Spring and Hibernate backend

CodeBase, *Project Developer* **Spring, Fall 2017**

- Developed a queuing system to automate job processing for the YiTuuX platform using AWS EC2, S3, SQS, EB
- Integrated Amazon Echo across the Ongo platform, allowing users to interact with health and fitness sessions
- Wrote scripts to automate the element flow for text and audio playback using a Node.js and MongoDB backend
- Implemented speech recognition trees in Python to handle routine and signal intents using AWS Lambda

Infosys, *Software Engineering Intern* **Summer 2016**

- Built the Java backend of an optimization engine to reduce the maintenance time for railway locomotives
- Implemented a shifting bottleneck heuristic to approximate the NP-hard job shop scheduling problem
- Solved the $1 \mid r_j \mid L_{max}$ scheme with a branch and bound algorithm that improved deliverable speeds by 50%
- Wrote scripts to process raw data from a MySQL database and visualize output in the form of a Gantt chart

CS61A, *Course Assistant* **Spring 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

Skills

Languages: Python, Java, Go, C/C++, JavaScript, SQL

Frameworks/Datastores: Django, Flask, Node.js, Spring, MySQL, MongoDB

Software/Tools: Git, LaTeX, NumPy/SciPy, Pandas, Wavefront, Grafana, Kibana

Projects - github.com/aneeshkhera

- Currently designing a scheduling system for elevators to optimize destination dispatching and learn bottlenecks
- WAN optimizer to reduce the amount of data sent across hosts using various hashing techniques
- Password manager that preserves end-to-end cryptographic security, preventing DOM-based and XSS attacks
- Web application that suggests outfits based on a user's wardrobe, daily schedule, and weather
- A Google Maps of the Berkeley area that routes shortest paths and optimizes query autocompletion