KEN COLE

Software Engineer

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EXPERIENCE

Software Engineering Intern - Feed Delivery Team

Facebook Inc.

📅 Summer 2019   📍 Menlo Park, CA

- Built automated debugger using Hack, Python, and SQL for News Feed
- Developed News Feed Backend in C++
- Trained new lightweight Feed Ranking ML model to reduce computation cost

Software Engineering Intern

Alumni Ventures Group

📅 Summer 2017   📍 Manchester, NH

- Custom built website and backend server system for www.wasabistables.com using Linux-Apache-MySQL-PHP stack
- Automated user creation and payment

Engineering Intern

Wasabi Ventures

📅 Summer 2016   📍 Manchester, NH

- Created back-end server for intellectual property search engine Android app TreasureIP using Node.js and MySQL
- Automated data retreival from U.S. Patent and Trademark Office API
- Implemented Google and Facebook Single Sign On

LEADERSHIP

Head TA - Advanced Topics in Data Science

Brown University Data Science Master's Program

📅 Spring 2019   📍 Providence, RI

- Designed a new course for Brown's Data Science Master's Degree Program
- Led a team of 6 TA's in holding hours and assignment creation/grading
- Course covered deep learning and applications to data science.

TA - Probability for Computing and Data Analysis

Brown University Department of Computer Science

📅 Fall 2018   📍 Providence, RI

- Held weekly office hours and answered student questions on an online forum
- Created and graded homework assignments
- Developed and Maintained the course website using HTML/CSS
- Course covered probabilistic methods and statistical inference

EDUCATION

Sc.B in Math & Computer Science

Brown University – 4.0/4.0

📅 Sept 2017 – May 2021

SKILLS

Machine Learning   Deep Learning
Java   C++   C   Python   SQL
x86 Assembly   HTML   CSS   Node.js
Linux   Communication   Leadership
Collaboration

PROJECTS

Neural Style Transfer (Python)
- Implemented Deep Convolutional Neural Style Transfer (results can be seen on my website kencole.github.io)

TaskTracker (Node.js, HTML, CSS, Mongodb)
- Full-stack web-app to manage to-dos. Supports Task creation, editing, and deletion

Cube Runner (Java)
- Recreated Cube Runner to learn the workings of 3D graphics

Database (C)
- Multithreaded-server to handle client-requests to an asychronous shared database

COURSES

- Abstract Algebra
- Accelerated Introduction to Computer Science
- Computer Systems
- Computer Vision
- Data Science
- Discrete Structures and Probability
- Linear Algebra
- Logic For Systems
- Machine Learning
- Probabilistic Methods in Computer Science
- Statistical Inference