KEN COLE

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EXPERIENCE

Software Engineering Intern - Market Data Team
Jane Street Capital

📅 Summer 2020 📍 New York, NY

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

- Built back-end server for patent search engine app using Node.js and MySQL with Google and Facebook Single Sign-on
- Automated data retrieval from U.S. Patent and Trademark Office API

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

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

Eagle Scout Award
Boy Scouts of America

📅 April 2015 📍 Windham, NH

- Designed, fundraised for, and led the installation of a challenge course for an elementary school valued at a donation of over $13,000

EDUCATION

Sc.B in Math & Computer Science
Brown University – 4.0/4.0

📅 Sept 2017 – May 2021 (expected)

SKILLS

Machine Learning | Deep Learning | Mathematical Analysis | C++ | C | Python | SQL | x86 Assembly | HTML | CSS | Node.js | Java | 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
- Circuits and Signals
- Computer Graphics
- Computer Systems
- Computer Vision
- Data Science
- Digital Electronic Systems Design
- Discrete Structures and Probability
- Functional Analysis
- Investments I
- Linear Algebra
- Logic For Systems
- Machine Learning
- Probabilistic Methods in Computer Science
- Programming Languages
- Real Analysis
- Reinforcement Learning
- Statistical Inference