

# Kevin Fang

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## Education

### Duke University | Trinity College of Arts and Sciences

05/2022

B.S. Computer Science, concentration in Data Science | Minor in Linguistics  
Cumulative GPA: 4.000/4.000

### New York University | Tandon School of Engineering

09/2018 — 05/2019

B.S. Computer Science | Transferred to Duke as of Spring 2019  
Dean's List 2018-2019

**Relevant Coursework:** Design and Analysis of Algorithms, Operating Systems, Data Structures & Algorithms, Object-Oriented Programming, Discrete Mathematics, Statistics and Probability, Computer Architecture, Everything Data

## Professional Experience

### Google | Software Engineering Intern | Mountain View, CA (remote)

05/2020 — 08/2020

- Developed tools for integrating natural language processing features into chat-bots within Google Maps + Search
- Built server to handle incoming requests from the Business Messages API and direct messages appropriately
- Integrated database to track user state of up to hundreds of thousands of simultaneous conversations (Firebase)
- Built EJS + Bootstrap console for company partners to manage agents and directly message users
- Created setup script for account creation, database + server initialization, and deployment to Google App Engine

### Duke ML | Associate Director of Sponsorship | Duke University

09/2019 — 12/2019

- Helped run Datathon, a data science competition where 300+ attendees analyze and present on a given dataset
- Judged Datathon submissions for methodology, relevance, and coherence
- Maintained and built relationships with companies and university departments for sponsorships and talks

### Intralinks | Data Science Intern | New York, NY

05/2019 — 08/2019

- Performed web scraping and exploratory data analysis on M&A data to direct model selection (scraPy)
- Clustered articles with K-Means Clustering after optimizing dimensionality with principle component analysis
- Predicted future M&A deals with pipeline consisting of supervised and unsupervised learning, including NLP techniques such as sentiment analysis and named entity recognition (BERT, TensorFlow)

### Curoverse Research | Data Science Intern | Somerville, MA

06/2016 — 01/2019

- Developed gene mutation search tools that analyzed terabytes of sequenced genomic data (numPy)
- Predicted eye color and blood type to 95% accuracy using SVM and Neural Networks (scikit-learn, TensorFlow)
- Interpreted machine learning models to determine specific mutations responsible for physical gene expression
- Presented about open science and genomic analysis to 100+ conference attendees at Harvard Medical School

## Selected Projects & Awards

### Citadel Trading Competitions — 1st Place (Duke University)

01/2020

- Won first place in two invite-only market making and betting competitions held by Citadel Securities

### Relief Mesh Disaster Network (Harvard University Hackathon)

10/2018

Facebook Award: Hack that Best Builds Strong Communities

- Designed and created distributed mesh network for communication after natural disasters
- Built physical mesh nodes using Raspberry Pi Zero, long range Arduino radios, and GPS modules
- Implemented Huffman coding for string compression to increase transmission bandwidth (Python)

### PillUp Medicine Dispenser — 1st Place (Johns Hopkins University Hackathon)

09/2018

1st place out of 62 teams | Siemens Sponsor Award: Best Healthcare Hack

- Developed low-cost robotic pill dispenser with Arduino Mega, Raspberry Pi, and servo motors
- Created web server, used web sockets for communication protocol (Flask, socket.io)
- Implemented web application designed with Material-UI for physicians (React.js)

## Technical Skills

### Programming

- Python, C, C++, Node.js, Java, Kotlin, R, MIPS Assembly
- HTML, CSS, JavaScript, JQuery, SQL
- Web, Android Development

### Libraries

- Scikit-learn, TensorFlow, ScraPy, NumPy, Pandas
- React.js, Express.js, Socket.io, Node.js, Mocha.js
- Common Workflow Language, RxJava

### Developer Tools

- Git, GitHub, LaTeX, Docker, AWS, GCP, Firebase
- Vim, Eclipse, Android Studio, Jupyter Notebook
- Unit Testing