

# Kevin Fang

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## Education

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

05/2022

B.S. Computer Science | Minor in Linguistics

Cumulative GPA: 4.0/4.0 | Dean's List with Distinction

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

## Professional Experience

### Instagram (Facebook) | Software Engineering Intern | New York, NY

06/2021 — present

- Instagram Ads Delivery & Ranking Team

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

05/2020 — 08/2020

- Developed software suite to vastly simplify integrating NLP and live-agent chat into external partner chat services
- Built express.js server to receive requests from Google Business Messages and direct messages appropriately, with mocha.js unit tests achieving >90% test coverage
- Integrated Firebase to track user status of >100,000 simultaneous conversations
- Created Python script for server initialization and deployment to GCP App Engine, reducing deployment time by ~80%

### Duke Machine Learning | Associate Director of Sponsorship

09/2019 — 12/2019

- Maintained and built relationships with >20 companies and university departments for sponsorships and talks
- Led a data science competition where ~300 attendees analyze and present on a given dataset

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

05/2019 — 08/2019

- Performed scrapy web scraping and exploratory data analysis on Mergers & Acquisitions data to direct model selection
- Built M&A prediction pipeline consisting of supervised and unsupervised learning in TensorFlow and scikit-learn, including NLP techniques such as sentiment analysis and named entity recognition

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

06/2016 — 01/2019

- Developed gene mutation search tools that analyzed terabytes of sequenced genomic data with numPy
- Predicted eye color and blood type to 95% accuracy using SVM and neural networks in scikit-learn
- 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

- Created distributed mesh network for communication using Raspberry Pi, long range radios, and GPS modules
- Implemented Huffman coding for string compression to increase transmission bandwidth

### 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 Flask web server and implemented socket.io communication protocol
- Implemented web application designed with Material-UI

## Technical Skills

### Programming

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

### Libraries

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

### Developer Tools

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