

# Kevin Fang

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## Education

**Duke University | Trinity College of Arts and Sciences | Durham, NC** *Expected 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 | New York, NY** *09/2018 — 05/2019*  
Bachelor of Science (B.S.), Computer Science  
Dean's List 2018-2019 Academic Year

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

## Professional & Leadership Experience

**Google, Inc. | Incoming Software Engineering Intern | Kirkland, WA** *Starting 06/2020*

**Duke Machine Learning | Associate Director of Sponsorship | Duke University** *09/2019 — 12/2019*

- Planned Duke Datathon, a data science competition where 300+ attendees analyze and present on a dataset
- Acted as a judge for Datathon, assessing 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)
- Classified articles by topic with 90% accuracy using Logistic Regression models (scikit-learn)
- Clustered articles with K-Means Clustering after optimizing dimensionality with principle component analysis
- Predicted M&A deals with pipeline consisting of supervised and unsupervised learning, including NLP techniques such as sentiment analysis and named entity recognition

**Curoverse Research | Data Science Intern | Somerville, MA** *06/2016 — 01/2019*

- Spearheaded creation of gene + rsID tools that searched through terabytes of 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

**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** (*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)

**Reinforced Flappy Bird** *04/2018*

- Modified video game "Flappy Bird" for compatibility with neural networks (numPy)
- Developed deep neural network agent to play batches of games and iteratively improve (TensorFlow)
- Implemented reinforcement learning with policy gradients

## Technical Skills

### Programming Languages

- Python, C++, JavaScript, Java, C, Kotlin, HTML + CSS, MIPS Assembly
- Web, Android Development

### Libraries

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

### Developer Tools

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