Kevin Fang

(617) 314-1485 • kevin.fang@duke.edu • kevinzfang.com • linkedin.com/in/kevin-fang • github.com/kevin-fang

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*

B.S., Computer Science, transferred as of Spring 2019
Dean's List 2018-2019 Academic Year

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

Professional & Leadership Experience

Google | Incoming Software Engineering Intern | Kirkland, WA *Starting 05/2020*

Duke Catalyst Tech Society | Professional Chair | Duke University *12/2019 — present*

- Maintain relationships with companies and speakers for club and school-wide talks
- Mentor students in preparation for the internship and full-time recruiting process
- Hold various professional development events for students, including technical interview workshops and resume workshops

Duke Machine Learning | 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
- Acted as a Datathon judge, 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 (BERT, TensorFlow)

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

- Spearheaded creation of gene + rsID tools that searched through terabytes of data for specific mutations on sequenced genomes (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 to train neural network

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