Kevin Fang

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Education

Duke University | Trinity College of Arts and Science *09/2019 — 05/2022*

- B.S. Computer Science (concentration in Data Science)
- Relevant Coursework: Computer Architecture, Economic Principles
- Transferred as of Fall 2019

New York University | Tandon School of Engineering *09/2018 — 05/2019*

- B.S. Computer Science
- Major GPA: 4.00/4.00, Dean's List
- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Discrete Mathematics, Statistics and Probability

Work Experience

Intralinks | Data Science Intern | Manhattan, NY *05/2019 — present*

- Build Python scripts to scrape news using scraPy and perform exploratory data analysis on M&A data
- Build classification models (Logistic Regression, SVM) to classify articles by topic with 90% accuracy.
- Apply Principal Component Analysis to optimize dimensionality of article data and create unsupervised models (K-Means, Spectral Clustering) to cluster article data
- Deploy NLP pipeline for named entity recognition using spaCy and scikit-learn

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

- Developed Python gene + rsID searching tools for open-source genome encoding software
- Applied and tuned machine learning classifiers to predict eye color and blood type to 95% accuracy in scikit-learn and TensorFlow
- Presented poster about open science at the i2b2/tranSMART symposium to 100+ attendees at Harvard Medical School

Projects

Relief Mesh Disaster Network *(Harvard University Hackathon — HackHarvard)* *10/2018*

Facebook Award: Hack that Best Builds Strong Communities

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

1st Place: PillUp Medicine Dispenser *(Johns Hopkins University Hackathon — HopHacks)* *09/2018*

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

- Designed and built low-cost robotic pill dispenser with Arduino Mega, Raspberry Pi, and Servo motors
- Created web server in Flask, used Socket.io for communication protocol
- Created "physician web view" in React.js, designed with Material-UI

Reinforced Flappy Bird *04/2018*

- Trained deep neural network to play the video game "Flappy Bird"
- Developed agent to play batches of games, iteratively improve, then retrain with updated model
- Implemented policy gradients and reinforcement learning in TensorFlow and Python

Skills

Programming

- Python, C++, JavaScript, Java, C, Kotlin, HTML + CSS
- Data Structures & Algorithms
- Web, Android Development

Libraries

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

Miscellaneous

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