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: 4.0/4.0

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 software suite to vastly simplify integrating NLP and live-agent chat into external partner chatbots
- 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
- Helped run a data science competition where ~300 attendees analyze and present on a given dataset
- Judged Datathon submissions for methodology, relevance, and coherence

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
- Clustered articles with K-Means Clustering after optimizing dimensionality with principle component analysis
- Build 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

- 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

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

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