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 (Introduction to Data Science)

Professional Experience

Instagram (Facebook) | Software Engineering Intern | New York, NY *06/2021 — 08/2021*

- Improved ML-based ad-ranking algorithms to include different factors in ad design as well as user preferences
- Designed & implemented end-to-end platform for ranking engineers to understand impact of different ad features
- Created experiments on different segments of users to determine effectiveness of performance optimizations
- Built recurring data pipelines to query petabyte-scale tables for extracting ads performance signals

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%

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