Felix Hu

314-691-9198 | felix.hu@duke.edu

Relevant Coursework

- Data Structures/Algorithms
- Intermediate Statistics and Data Analysis
- Matrix (Linear)Algebra
- Foundations of Higher Mathematics
- Intro to Machine Learning
- Rapid Prototype Development
- Design and Analysis of Algorithms*
- Intro Computational Genomics*

    *Currently taking

Student Organizations

- ACM ICPC team member
- Entrepreneur Society
- WashU Chemistry Tournament
    - Outreach committee

Technical Skills

Proficient: Java, C++

Python, Bash, R, PHP, HTML, CSS, MySQL, Objective-C, Javascript, Git, LaTeX

Links

Github: https://github.com/FelixWho

LinkedIn: www.linkedin.com/in/felix-hu

Education

Duke University	**2020 – 2023**
Major(s): Computer Science, Statistics	
Washington University – St. Louis (transferred)	**2019 - 2020**
Major(s): Math, Computer Science	GPA: 4.0

Work Experience

L3Harris Technologies Software Engineer Intern | Summer 2020
- Worked with the ad-hoc networks group to develop software that allows mesh networks to interface with FPGA devices for vehicle communication. Language: C++
    - Tested code in a virtual physical simulation.
- Redesigned L3Harris' backend scalable-component-framework to ensure robustness and modernize the library for new components

Data Structures and Algorithms TA | *Winter 2020*
- Guided students through problem sets/studios, hosted office hours, designed course materials for common algorithms
- Also served as a teaching assistant for 247R, a 2-hour weekly tech interview help session

Corner 17 Restaurant Software Developer | *Spring 2019*
- Built a management application for iOS devices that keeps track of customers, waitlists, free tables, and sales statistics; uses algorithms to suggest which tables to assign to customers, estimate wait list times, and visualize data. Language: Objective-C

WashU Med Research Assistant | **Ding Lab** | *Summer 2019*
- Built R software for high throughput cancer genomics data that statistically analyzes data for significantly mutated genes. Work was presented at American Association for Cancer Research meeting.

Projects

Safinia | *Technology Lead* | Spring 2020
- Developing a natural language processing-driven educational platform for medicine. Using SpaCy and TensorFlow to determine speech intent and generate knowledge graphs from medical websites. Roles involve software development, managing teams, ML model training, presenting work to VCs.
- A funded Sling Health Initiative with partnerships with schools in the St. Louis area.

Buzzfund | Spring 2020
- Developed a trading service in Python that uses machine learning algorithms such as random forest and boosting on options chains from TD Ameritrade's API to analyze trade decisions based on unusual options activity. Extensive backtesting is used to validate signals.

Misc.

USA Computing Olympiad | **Gold Division** | 2017
USA Biology Olympiad | **Top 50, ~0.3%** | 2019