ADITYA KRISHNAMACHAR

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EDUCATION

Washington University in St. Louis

GPA: 3.9 / 4.0

MS in *Computer Science*	*Dec 2021*
BS in *Computer Science* & *Financial Engineering*	*May 2021*

LEADERSHIP

WashU Trading Club
Weekly meetings, participate in trading comps | 09.2018 – 12.2021

Contra - Men's Ultimate Frisbee
Player, Head tournament director at Huck Finn 2019 | 09.2017 – 12.2021

Association for Computing Machinery at WashU (ACM)
Programming competitions, lead weekly meetings | 01.2018 – 05.2021

Gateway to the Great Outdoors
Mentor 5th graders + led overnight camping trips | 01.2019 – 01.2021

SKILLS

Python • Java • C • SQL • JS • Excel
Hadoop • Tableau • MATLAB

COURSEWORK

Optimization
Financial Mathematics
Risk Management
Investments
Algorithms
Data Science

hobbies!

hiking, xc + downhill skiing, biking, (very!) competitive ultimate frisbee. Liverpool FC aficionado.

EXPERIENCE

VIRTU FINANCIAL
Analyst | 02.2021 – present

- Part of the Trading Analytics team

WASHU ENGINEERING
Teaching Assistant, Web Development + Intro to CS | 08.2018 – 01.2021

- Instructed >500 students in designing + publishing websites, web apps
- Wrote assignments to teach principles of object-oriented programming, user-centered design; used Java, JS, Tableau, d3

THE BOEING COMPANY
Data Science Intern | Summer 2020

- Liaised with customers in WA, SC, MO; presented work to management
- Improved prediction of airplane component timelines by 20% + identified significant variables that drive production schedules
- Consulted on NER word-embedding project; part of versatile AI-ML team

FORD MOTOR COMPANY
Research and Development Intern | Summer 2019

- Wrote software to automate manual steps in highly used neural network pipeline; improved Driver Assistance Technology (DAT) features
- Work presented at *Ford Global Control Conference* (Dec. 2019)

JD CAPITAL
Analyst | Summer 2018

- Built volatility surfaces and probability distributions using Bloomberg data
- Analyzed arbitrage opportunities focusing on ETFs; modeled in Python

EPISTEME CAPITAL
Analyst | Summer 2018

- Created short-term forecasting models to predict changes in commodities
- Focused on corn, natural gas, soybeans – used Bloomberg, VBA, Python

PROJECTS

AIR QUALITY DATA VISUALIZATION | *Personal Project, 2021*

- Built an interactive tool showing worldwide air quality; used d3 + PurpleAir

FORD COMPANY HACKATHON | *FIRST PLACE, 2019*

- Created Proof-of-Concept low-cost road quality mapping system
- Placed **1st in Hackathon**; presented work to Ford Global Leadership

ASTRONOMY RESEARCH | *Independent Project, 2017-18*

- Published lightcurve analysis in MPB (43-3, 2016) + discovered 5 asteroids!