ADITYA KRISHNAMACHAR

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EDUCATION

Washington University in St. Louis
MS in Computer Science
Dec 2021
GPA: 4.0 / 4.0

BS in Computer Science and *Financial Engineering*
May 2021
GPA: 3.5 / 4.0

LEADERSHIP

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

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

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

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

SKILLS

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

COURSEWORK

Optimization
Financial Mathematics
Quantitative Risk Management
Algorithms
Data Science
Investments

hobbies!

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

EXPERIENCE

WASHU ENGINEERING

Teaching Assistant, Web Development + Intro to CS | 08.2018 – present

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

THE BOEING COMPANY

Machine Learning Intern | Summer 2020

- Improved prediction of airplane component timelines by 20% + identified significant variables that drive production schedules; worked with customers in WA, SC, MO; presented work to upper management
- 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 data retrieval + use; eliminated manual steps in highly used neural network pipeline; improved Driver Assistance Technology (DAT) features within the Autonomous Driving framework
- Work presented at *Ford Global Control Conference* (Dec. 2019)
- Used *Hadoop* as backend; *MATLAB* for GUI; *Unreal Engine* for simulation

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

DATA VISUALIZATION WITH 538 | *Personal Project, 2020-21*

- Used FiveThirtyEight data and React frontend to create an interactive model of a Premier League football season

FORD COMPANY HACKATHON | *FIRST PLACE, 2019*

- Worked with team of four software + hardware engineers to create Proof-of-Concept low-cost road quality mapping system
- Used internal + external car cameras, Hadoop backend, Raspberry Pis, MobileNet CNN to build model to evaluate condition of roads
- Placed 1st in Hackathon; presented work to Ford Global Leadership

ASTRONOMY RESEARCH | *Independent Project, 2017-18*

- Completed photometry analyses; discovered 5 asteroids (!)
- Published lightcurve research in MPB (43-3, 2016)