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

WashU Trading Club

Weekly meetings, participate in trading comps | 09.2018 – present

Association for Computing Machinery at WashU (ACM)

Programming competitions, lead weekly meetings | 01.2018 – 05.2021

Contra - Men's Ultimate Frisbee

Player, Head tournament director at Huck Finn 2019 | 09.2017 – present

Gateway to the Great Outdoors

Mentor 5th graders + led overnight camping trips | 01.2019 – 01.2021

SKILLS

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

COURSEWORK

Optimization
Financial Mathematics
Risk Management
Investments
Algorithms
Data Science

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
- Managed class of over 500 students, conducted extensive feedback surveys
- 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 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*

- Led 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*

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