ADITYA KRISHNAMACHAR

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EDUCATION

Washington University in St. Louis

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 – present

SKILLS

Java • Python • C • MATLAB • SQL
React • NodeJS • Unity • Hadoop

COURSEWORK

Algorithms
Parallel & Concurrent Programming
Optimization
Data Science
Machine Learning
Human-Computer Interaction

LINKS

linkedin.com/in/a-krishnamachar
github.com/a-krishnamachar

EXPERIENCE

THE BOEING COMPANY

Machine Learning Intern | Summer 2020

- 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 that 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

WASHU ENGINEERING

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

- Helped students build skills in asynchronous programming, user-centered design; used JavaScript, React, Node.js

JD CAPITAL

Analyst | Summer 2018

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

EPISTEME CAPITAL

Analyst | Summer 2018

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

PROJECTS

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, Raspberry Pis, MobileNet CNN to build model to evaluate condition of roads
- Placed 1st in Hackathon; presented work to Ford Global Leadership

DATA VISUALIZATION WITH 538 | *Personal Project, 2020*

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

ASTRONOMY RESEARCH | *Independent Project, 2017*

- Completed photometry analyses; discovered 5 separate asteroids working with IASC (Int'l Asteroid Search Collaboration)
- Published lightcurve research in MPB (43-3, 2016)