

Vaughn Parker

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EDUCATION

University of Illinois at Urbana-Champaign
B.S. in Computer Science and Linguistics

Graduating May 2023

EXPERIENCE

Axis Group

Summer 2021

Data Engineering Intern

Virtual

- Built music-autocompleter using Google's Magenta framework.
- Developed PDF parser with PyPDF2 to extract information from bank statements.

Caterpillar Inc. Data Innovation Lab

Summer 2020

Corporate Engineering Intern

Virtual

- Developed internal dashboard to automatically fetch and visualize machine sensor data.
- Used sklearn decision trees to aid in decision-making processes.

Constellation Advisers

Summer 2019

Data Science Intern

New York, NY

- Automated excel-heavy tasks using Python, openpyxl, batch, and Task Scheduler to save man hours across the company.
- Programmed reporting software with smtplib and twilio to write and send daily emails and text messages with the status of the temperature and humidity of the server room.

SIDE PROJECTS

Rubik's speedcube release alerts

2021

- Created BeautifulSoup script that scans websites 96 times per day for new speedcube releases.
- Started Amazon EWS server to host script that creates Reddit posts automatically using PRAW.

Swim meet strategizer

2020

- Programmed a web scraper with selenium that downloads past swim meet data for high school swimmers.
- Employed game-theoretic analysis to find strategy recommendations.

What's that move!

2019

- Developed a ML model to determine what motion one is performing using gyroscope data from iPhones.
- Designed a Gradient Boosted Trees model to identify action being performed with 92% accuracy.
 - Actions included: walking upstairs, downstairs, and on flat terrain, standing, sitting, and running.

LEADERSHIP AND ACTIVITIES

Metis Data Science Bootcamp

May 2019 - Present

Data Science TA

- Hosts weekly virtual office hours to teach students Python and data science libraries.

University of Illinois Rowing Team

May 2020 - Present

Men's Team Captain

- Leads daily workouts for student athletes and organizes transportation to practices.

SKILLS

Programming languages: Python, Java, C++, C, HTML/CSS, Lua

Machine learning libraries: pandas, Scikit-learn, keras, TensorFlow

Data visualization libraries: matplotlib, seaborn