

# Harrison Lanier

## Data Scientist

### WORK EXPERIENCE

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#### Parkster.ai (Techstars '22)

Co-Founder & Chief Technology Officer

August 2022 – February 2023

- Trained a FCOS ResNet-50 model to detect available on-street parking spaces in real-time, served predictions on over 200 parking spaces through an API, and composed demos of parking availability use cases to win potential customers.
- Built an automated application to help event attendees find the closest and cheapest parking spaces to their destination by extracting real-time parking reservation quotes from over 2k garages across multiple APIs.
- Constructed a web application allowing internal team members to add events to the website during sales meetings and implemented checks to ensure data standardization.

#### Saint Louis University

Research Assistant

June 2022 – August 2022

- Developed a multi-user web application for annotating and storing bounding boxes on images for model training.
- Trained a FCOS ResNet-50 model on over 50k images to detect furniture in hotel rooms for my professor's research project, [TraffickCam](#).
- Researched methods to leverage detected objects to match a hotel room image to a known hotel.

#### Invesco

Performance Analyst Investment Intern

March 2021 - August 2021

- Spearheaded the first automated Power BI dashboard within the performance team to display index fund information to product managers, saving 40 hours of labor each month.
- Optimized preexisting SQL queries and composed new queries to answer questions on fund performance from the portfolio management team.
- Debugged and contributed to Python scripts that automate scheduled reports for portfolio managers.

#### Willow Bend Mortgage

Technology Intern

May 2020 – August 2021

- Implemented a predictive model to forecast company-wide and branch level production for executive leadership with 11% error based on current pipeline and historical data.

### PROJECTS

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#### Weather Analysis

Data Science Capstone

- Extracted, cleaned, and visualized daily weather data from over 200 cities to explain temperature forecasting error throughout the US.
- Selected by Tidy Tuesday the week of 12-20-2022. Check it out [here!](#)

### CONTACT

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- ✉ [hlanier90@gmail.com](mailto:hlanier90@gmail.com)
- ☎ 972-825-6101
- in [linkedin.com/in/harrison-lanier/](https://linkedin.com/in/harrison-lanier/)
- github [github.com/hlanier14](https://github.com/hlanier14)
- 📁 [harrisonlanier.com](https://harrisonlanier.com)

### SKILLS

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#### Programming:

- Python
- JavaScript
- SQL
- R

#### Data Science:

- Pandas
- NumPy
- Matplotlib
- TidyR
- Ggplot2

#### Computer Vision:

- PyTorch
- TensorFlow
- OpenCV
- CUDA

#### Web Development:

- Flask
- React
- Express

#### DevOps:

- GCP
- Docker
- Git / GitHub
- Linux

### EDUCATION

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#### Saint Louis University

Master of Science  
Artificial Intelligence

Bachelor of Science  
Data Science

August 2018 – May 2022

- *Magna Cum Laude*
- *Dean's List 5 semesters*