

Riley Oest

(309)-259-0363 · rileyoest13@gmail.com

Experience

Machine Learning Engineer

LSU Mathematics Department

September 2023 - Present

- Building algorithmic investment strategies for options trading

Applied Research Scientist

LSU Mathematics Department

January 2023 - September 2023

- Developed source code for an artificial neural network with Python libraries
- Used machine learning to develop a predictive model for non-invasive prediction of the inside of a horse's hoof
- Conducted data preprocessing from data generated by infrared sensors
- Advised by a graduate research assistant in veterinary and clinical science and a postdoctoral researcher in mathematics
- Co-author of the research paper (Still in progress)

Python Developer

Harvard GAMI (Global Alliance for Medical Innovation)

August 2022 - May 2023

- Developed Python code for data preprocessing and organization
- Worked with kinematic patient data generated by the Test Flight app via iPad drawings
- Wrote functions to quantify digitized drawings so a machine learning algorithm could distinguish them between patient and control groups
- Evaluated functions and features based on their ability to distinguish between patients and controls
- Presented weekly progress to the team
- [Research Paper](#)

ITS Service Desk Assistant

LSU Information Technology Services

September 2021 - September 2023 (Seasonal)

- Assisted users with technology-related issues via phone and in-person interactions.
- Experience with LSU database
- Logged tickets to track customer troubleshooting history

Applied Research Intern

LSU Mathematics Department

May 2021 - August 2021

- Worked with data acquired from DXA scans from Pennington Biomedical Research Center to predict BMI (Body Mass Index)
- Created a predictive model using machine learning algorithms that accomplishes the accuracy of a DXA scan with a smartphone application
- Worked alongside a team of both undergraduate and graduate students guided by an advisor
- [Research Paper](#)

General Maintenance

STC Investments

June 2019 - August 2022 (Seasonal)

- Mowing and landscaping crew
- Painted walls and trim
- Repaired minor damages to rental properties

General Contractor

Collins Excavating

May 2022 - August 2023 (Seasonal)

- Excavating
- Demolition
- Sewer and water line replacement
- Concrete (flat-work)

Mower & Artist

Macomb Country Club

May 2020 - August 2020

- Mowing crew
- Performed live music at the restaurant

Cashier

Farm King

May 2018 - August 2020

- Stocked goods
- Took orders and operated the cash register
- Helped customers to their vehicles with heavy items

Score Keeper

Macomb High School

August 2017 - May 2020

- Took admissions / operated scoreboards for high school games
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Education

Louisiana State University

Bachelor's in Computer Science

Concentration in Data Science & Analytics

Minor in Mathematics

- Expected Graduation: December 2024
- GPA = 3.2 / 4.0

Macomb High School

High School Diploma

- Graduated: May 2020
 - GPA = 3.4 / 4.0
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Volunteering

St. Paul's Church




Catholic Confirmation

May 2015 - August 2016

- 50 volunteer hours
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Interests

Coding Languages

-  Python
-  Java
-  C++

Programming Interests

- Artificial Intelligence
- Algorithmic Trading
- Medical Research Tools

Guitar

- I've had a passion for playing guitar since 2018
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Riley Oest : rileyoest13@gmail.com : (309)-259-0363



LinkedIn



Handshake



GitHub