Riley Oest

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[LinkedIn](#)

[Handshake](#)

[GitHub](#)

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

Experience

Machine Learning Engineer

LSU Mathematics Department

September 2023 - Present

- Building algorithmic investment strategies for options trading

> Advised and collaborated with:
>
> - Kurtay Ogunc : kurtay@lsu.edu

Applied Research Scientist

LSU Mathematics Department

January 2023 - September 2023

- Developed source code for a artificial neural networks using Python libraries

- Used machine learning alrogithms to build a predictive model to noninvasively investigate the displacement of a horse hoof

- Conducted data preprocessing from data generated by infrared sensors

- Collaborated with a graduate research assistant in veterinary and clinical science and a postdoctoral researcher in mathematics to write a research paper (Still in progress)

> Advised and collaborated with:
>
> - Rita Auon : raoun1@lsu.edu
>
> - Frédéric Marazzato

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

- Designed 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](#)

> Advised by:
>
> - Jake Iyer
>
> - Ru Li

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](#)

> Advised by:
>
> - Peter Wolenski : pwolens@lsu.edu
>
> - Frédéric Marazzato

General Maintenance

STC Investments

June 2019 - August 2022 (Seasonal)

- Mowing and landscaping crew

- Painted walls and trim

- Repaired minor damages to rental properties

> Manager:
>
> - Scott Collins : (309)-255-9001

General Contractor

Collins Excavating

May 2022 - August 2023 (Seasonal)

- Excavating

- Demolition

- Sewer and water line replacement

- Concrete (flat-work)

> Manager:
>
> - Scott Collins : (309)-255-9001

Score Keeper

Macomb High School

August 2017 - May 2020

- Took admissions / operated scoreboards for high school games

> Athletic Director:
>
> - Steve Horrell : (309)-333-9833

Cashier

Farm King

May 2018 - August 2020

- Stocked goods

- Took orders and operated the cash register

- Helped customers to their vehicles with heavy items

Mower & Artist

Macomb Country Club

May 2020 - August 2020

- Mowing crew

- Performed live music at the restaurant

Volunteering

St. Paul's Church

Catholic Confirmation

May 2015 - August 2016

- 50 volunteer hours

Interests

Coding Languages

- 🐍 Python

- ☕ Java

- C++

Programming Interests & Skills

- Artificial Intelligence

- Algorithmic Trading

- Medical Research Tools

Guitar

- I've had a passion for playing guitar since 2018