

# Riley Oest

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

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LinkedIn



Handshake



GitHub

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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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## 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 alorithms 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
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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 & Skills

- Artificial Intelligence
- Algorithmic Trading
- Medical Research Tools

### Guitar

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