# 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: marazzato@arizona.edu

### **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: marazzato@arizona.edu

#### **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