

James Tyler LoVerde

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EDUCATION

University of Wisconsin-Madison

Madison, WI

Bachelor of Science in Computer Science and Data Science

Sept. 2021 - May 2025

GPA: 3.72/4.00

Relevant Coursework: Algorithms, Python I and II, Java II and III, Statistical Modeling I and II, Machine Organization (C), Artificial Neural Networks and Deep Learning, Artificial Intelligence, Big Data (Spark), Databases, Operating Systems

EXPERIENCE

Grainger Technology Group

Chicago, IL

Software Engineer Intern

June 2024 - Present

- Innovated a tool that allowed internal teams to follow a process to migrate their databases cross region with zero downtime through **AWS Databases Migration Service**
- Developed a tool in Python for teams that want to operate **Aurora Postgres** databases in the **AWS** cloud optimizing database provisioning and managing processes
- Coded in **Python** a new employment onboarding process for employees resulting in a **50%** reduction in onboarding time

Fenster Analytics

Madison, WI

Software Engineering Intern

March 2023 - May 2023

- Facilitated the transfer of deployment services from **Docker** to Fly on their **Python** codebase leading to a reduction in hosting services cost to optimize development by **20%** on the company's beta product
- Contributed to the enhancement of the company's analytics dashboard frontend by designing and implementing new features using **React** and **HTML/CSS**, allowing the product to be presented aesthetically to potential investors
- Integrated a **CI/CD** pipeline through GitHub actions ensuring smooth development of the company's beta product

CNH Industrial Capital

Racine, WI

Data Analytics Intern

May 2023 - Aug. 2023

- Aggregated, cleaned, and manipulated large datasets with millions of essential data entries using **SQL** scripts in order to gain insights of financial data that led to strategic adjustments creating an increase of **5%** in profits in certain sectors
- Implemented **28** different tailored-made **SQL** scripts to automate sales teams monthly reporting system that was standardized across all North American teams, increasing efficiency by eliminating reporting hours

PROJECTS

Full Stack Calcutta Auction Site | React, Node.js, MongoDB

March 2024 - Present

- Created a website to perform March Madness Calcutta auctions with other users using **Node.js**, **React**, and **MongoDB**
- Designed a platform to handle all of the Calcutta workings (auctions, leagues, users, and eventually payments)
- Implemented a **MongoDB** database to manage and store user data, auction details, and league information

Artificial Neural Networks NFL Article | Python, Tensorflow, Sklearn ([Article Link](#))

May 2024

- Developed an **RNN (LSTM)** to predict NFL offensive plays (run, pass, field goal, punt) achieving a 73% accuracy
- Conducted extensive data preprocessing and analysis to handle over 350 variables and 900,000 rows to train the model effectively and determine the best features to use as input into the model for optimal results

JPMorgan Chase Hackathon (1st Place) | Python, Sklearn, Pandas

Oct. 2023

- Coded an **optimization** model to identify optimal ZIP code pairings between cities by clustering into two groups with **KMeans**, calculating Haversine distances between the clusters, and scoring the pairs using L2 and distance metrics.
- Accumulated, manipulated, and merged vast data sources to find statistical evidence to support our solution

SKILLS

Languages: Java, Python, JavaScript, R, SQL, HTML/CSS, C

Frameworks and Tools: React, Node.js, MongoDB, AWS, Aurora Postgres, Git, Docker, Linux, Kubernetes, TensorFlow