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, Databases, Operating Systems

EXPERIENCE

Grainger Technology Group   **Chicago, IL**
Software Engineer Intern   *June 2024 - Present*
- Innovated a tool that allowed teams to follow a process to migrate their databases cross region with zero downtime into next-gen (internal upgraded cloud accounts) through AWS Databases Migration Service
- Developed an automation 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 75% 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 100% by eliminating reporting hours

PROJECTS

Full Stack Calcutta Auction Site | *React, Node.js, MongoDB*   *Aug. 2023 - Present*
- Created a website to perform March Madness Calcutta auctions with other users using Node.js, React.js, 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, Keras, Sklearn (Article Link)*   *May 2024*
- Developed an LSTM to predict NFL offensive plays (run, pass, field goal, punt) in real time 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 Winner | *Python, Sklearn, Pandas*   *Oct. 2023*
- Coded an optimization model to identify optimal zip code pairings between cities by clustering zip codes into two groups using 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, Git, Docker, Postman, Linux, Postman