

# James LoVerde

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## EDUCATION

### University of Wisconsin-Madison

Madison, WI

Bachelor of Science, GPA: 3.77/4.00, In-Major GPA: 3.8/4.00

September 2021 – May 2025

Majors: Computer Science, Data Science

Involvement: Copenhagen Study Abroad Spring 2024, Recruitment Chair - Beta Theta Pi, gBETA Startup Accelerator

**Relevant Coursework:** Data Structures and Algorithms, Data Visualization, Data Science with Python, Machine Organization (C), Computer Graphics, Database Management Systems, Artificial Neural Networks and Deep Learning, Big Data, Artificial Intelligence

## EXPERIENCE

### Software Engineer Intern

June 2024 – August 2024

Grainger

Chicago, IL

- Innovated a tool using **Terraform** that allowed internal teams to migrate their databases cross region, cross account with zero downtime through **AWS** Databases Migration Service that was standardized across all teams
- Developed a tool in **Python** for teams that automated the process of creating Aurora **Postgres** databases in AWS cloud, optimizing database provisioning and managing processes
- Coded a Python slack bot for onboarding employees resulting in a **25%** reduction in onboarding time for the team

### Software Engineer Intern

March 2023 – May 2023

Fenster Analytics

Madison, WI

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

### Data Analytics Intern

May 2023 - August 2023

CNH Industrial Capital

Racine, WI

- Aggregated, cleaned, and manipulated large datasets with millions of 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 SQL scripts to automate monthly reporting that was standardized across all North American teams

## PROJECTS

### Nomad, CTO, iOS App | Swift, SwiftUI, Firebase

Oct. 2024 – Present

- Developed an iOS social media travel app 'Nomad' with **Swift**, **SwiftUI**, and **Firebase** for friends to choose travel activities based on recommendations and tips from people in their direct network
- Successfully scaled the app to **30+** active beta users on TestFlight and built a waitlist of **100+** users
- Led product development and joined a startup accelerator program (gener8tor); collaborated with mentors and accelerator staff to refine business model and pitch to investors ([Demo Link](#))

### NFL AI Play Calling Predictor | Python, TensorFlow

April 2024 – May 2024

- Collaborated with team of 4 to develop an RNN (LSTM) using **TensorFlow** to predict NFL offensive plays (run, pass, field goal, punt) achieving a **73%** accuracy and over a 50% accuracy on seven different play types
- Conducted data preprocessing and analysis to handle over 350 variables and 1,000,000 rows to train the model
- Authored a Medium article ([Link](#)) to showcase the practical applications of machine learning in sports analytics

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

Oct. 2023

- Achieved 1st Place, leading MoveToProsper, nonprofit company who gave the problem statement, to adopt our optimization model for determining the ZIP codes to prioritize in their next expansion efforts
- Coded an optimization model in Python's **Sklearn** library to identify these ZIP code pairings between cities by clustering into two groups with KMeans and ranking the top 40 pairs using a self-articulated algorithm

## TECHNICAL SKILLS

**Languages:** Python, Java, Swift, SQL, JavaScript, TypeScript, R, HTML/CSS, C, HCL, Bash

**Frameworks and Tools:** React, Node.js, AWS, Git, Docker, Linux, Kubernetes, PostgreSQL, Firebase, Spark