James LoVerde

732-687-5154 | jamestloverde@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

University of Wisconsin-Madison — Madison, WI
Bachelor of Science, GPA: 3.72/4.00 — *September 2021 – May 2025*
Majors: Computer Science, Data Science
Coursework: Algorithms and Data Structures, Python I and II, Java II and III, Statistics I and II, Data Modeling I and II (Python), Data Visualization (R), Machine Organization (C), Computer Graphics, Artificial Neural Networks and Deep Learning, Big Data (Spark), Databases, 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 50% 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** on their Python codebase 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
- Integrated a **CI/CD** pipeline through GitHub actions ensuring smooth development of the company's product

Data Analytics Intern — May 2023 - Aug. 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, Firebase* — May 2024 – Present
- Developed a iOS social media travel app 'Nomad' through startup program, architecting a **SwiftUI**-based app focused on peer-to-peer travel recommendations
- Implemented a backend with **Firebase** for user authentication, data management, and social media feed logic
- Led product development and pitched at UW Madison's CSNEST competition; collaborated with mentors and accelerator staff to refine business model and prepare beta release

NFL AI Play Calling Predictor | *Python, TensorFlow* — April 2024 – May 2024
- Developed an **RNN (LSTM)** to predict NFL offensive plays (run, pass, field goal, punt) achieving a 73% accuracy
- Conducted data preprocessing and analysis to handle over 350 variables and 1,000,000 rows to train the model
- Authored a Medium article to showcase the practical applications of **machine learning** in sports analytics

JPMorgan Chase Hackathon (1st Place) | *Python, Sklearn* — Oct. 2023
- Secured 1st Place, leading MoveToProsper, nonprofit company who gave the problem statement, to adopt our 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
- Accumulated and manipulated vast data sources in Python to find statistical evidence to support our solution

TECHNICAL SKILLS

Languages: Python, Java, Swift, JavaScript, R, SQL, HTML/CSS, C, TypeScript, HCL, Bash
Frameworks and Tools: React, Node.js, AWS, Git, Docker, Linux, Kubernetes, PostgreSQL, Firebase, Postman
Experience With: Full Stack Development, Machine Learning, Cloud Development, DevOps, Data Science