Nicholas Alexander Klos

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EDUCATION

University of Central Florida | College of Engineering and Computer Science　　　　**Orlando, Florida**
Bachelor of Science in Information Technology　　　　*Summer 2025*

- **Relevant Coursework:** Object Oriented Programming, Numerical Calculus, Matrix and Linear Algebra, Data Structures and Algorithms, Machine Learning, Statistics, Operating System Concepts
- **Honors:** President's Honor Roll**,** 3x Dean's List and Vice-President of Italian Society Club
- **Certificates:** Introduction to Generative AI by **Google**, Introduction to Large Language Models by **Google**, Introduction to Responsible AI by **Google**, AI Developer Certificate from **IBM**

PROFESSIONAL EXPERIENCE

Florida Solar Energy Center　　　　**Cocoa, Florida**
Data Scientist & Data Engineer　　　　*October 2022 – August 2023*

- Supported comprehensive data processing through the integration of statistical analysis and **machine learning algorithms**.
- Analyzed performance metrics of solar panels under various environmental conditions using **predictive modeling** and **big data analytics**.
- Collected and managed extensive datasets using advanced **data mining techniques** and **feature engineering**.
- Developed and implemented automated scripts for efficient **time series analysis** and **model optimization**.

PwC　　　　**Milan, Italy**
Data & Analytics | ML Ops & AI Ops　　　　*May 2022 – July 2022*

- Contributed to back-end data modeling on the Palantir Foundry platform using **deep learning** and **neural networks**.
- Utilized Spark Python API to develop scalable and efficient data structures for a leading Italian bank, enhancing **data flow** and **cloud computing for AI**.
- Specialized in **database management** and **data warehousing** using Oracle and Microsoft SQL Server.
- Ensured robust and secure data storage solutions through industry-standard tools, leveraging **data encryption**, **distributed computing**, and **advanced data modeling techniques**.

PROJECTS

Treasure Hunt Game | Full-stack Development

- Developed an interactive **web-based** game simulating a treasure hunt, where players navigate a dynamic board to collect items and interact with other players.

Weather Prediction Model | Machine Learning

- This project leverages **machine learning** to predict next-day rainfall using historical weather data, comparing models like **Log Regression, K-Nearest Neighbors, Decision Tree, and Support Vector Machine.**

Chatbot | AI and APIs

- Developed a chatbot that leverages **AI** and **natural language processing** techniques to understand and respond to user queries and user engagement.

SKILLS

- **Back End |** Java, C++, MySQL, Python, PySpark
- **Front End |** HTML, CSS, JavaScript
- **Python Libraries |** TensorFlow, PyTorch, Keras, scikit-learn, Matplotlib, NumPy, pandas
- **Data Analytics Platform |** Palantir Foundry, Tableau