

Nicholas Alexander Klos

Orlando, Florida | nicholask39@gmail.com | 734-272-5692
[linkedin.com/in/nicholas-klos-16438422b/](https://www.linkedin.com/in/nicholas-klos-16438422b/) | nickklos10.github.io/Nicholas-Klos/

EDUCATION

University of Central Florida | College of Engineering and Computer Science

Orlando, Florida

Bachelor of Science in Information Technology

August 2025

- **Relevant Coursework:** OOP in Java, Numerical Calculus, Matrix and Linear Algebra, Data Structures and Algorithms, Statistics, Operating Systems, Enterprise Computing, Databases, Computer Networks, Web Development
- **Honors:** 2x President's Honor Roll, 2x Dean's List and Vice-President of Italian Society Club
- **Professional Certificates:** Introduction to Generative AI Learning Path by Google, AI Developer from IBM, TestOut IT Fundamentals Pro, AI Engineering from IBM

PROFESSIONAL EXPERIENCE

Florida Solar Energy Center

Cocoa, Florida

Undergraduate Research Assistant - Data Scientist

October 2022 – July 2023

- **Enhanced data processing capabilities** by integrating **statistical analysis** with **machine learning algorithms**, resulting in a **35% reduction in processing time** across **1.5 million data points**.
- Conducted **in-depth performance analyses** of solar panels using **predictive modeling** and **big data analytics**, achieving a **30% increase in efficiency metrics** under varying **environmental conditions**.
- Developed and **deployed automated scripts** for **time series analysis** and **model optimization**, streamlining workflows that handled over **500GB of data weekly** while improving **model accuracy by 25%**.

PwC

Milan, Italy

Data Engineer / ML Ops & AI Ops

May 2022 – July 2022

- **Engineered advanced back-end data models** within the **Palantir Foundry** platform, leveraging **deep learning** and **neural networks** to enhance **data processing capabilities**, achieving a **40% reduction in model training time** across large datasets.
- Developed and **optimized scalable data structures** utilizing **Spark Python API** for a **leading Italian bank**, resulting in a **30% improvement in data flow efficiency** and significantly enhancing **cloud computing performance** for **AI applications**.
- **Implemented robust ETL pipelines** to streamline **data ingestion, transformation, and storage processes** while maintaining **high-quality standards**; increased **workflow efficiency by 25%** and reduced **error rates by 15%** through meticulous **database management** with **Oracle** and **Microsoft SQL Server**.

PROJECTS

Fashion-MNIST CNN Classifier | Convolutional Neural Networks

- **Developed a CNN** through **training on the Fashion-MNIST dataset**, achieving **high validation accuracy** and **robust generalization on fashion-related images**.

Soccer Prediction Model | Feedforward Neural Networks

- This project involves **scraping data, processing the data, and building machine learning models** to **predict the standings** for the 2024-2025 Serie-A season.

Concrete Crack Detector | Convolutional Neural Networks

- Developed a **Flask-based web app** for **detecting structural anomalies** using **deep learning**, ensuring **quality and reliability** in reporting.

TECHNOLOGIES

- **Back End Languages** | Java, Python, PySpark, JavaScript, C++, Go, SAP ABAP
- **Python Libraries** | TensorFlow, PyTorch, Keras, scikit-learn, Hugging Face, matplotlib, NumPy, Pandas
- **Databases** | MySQL, PostgreSQL, MongoDB, SQLite
- **Cloud** | AWS, Azure, IBM Watson
- **Web Frameworks** | Django, Flask, Spring Boot, Express.js