

# Nicholas Alexander Klos

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## PROFESSIONAL EXPERIENCE

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### LifeSpeak

Minneapolis, Minnesota

Chief of Staff

June 2025 – Present

- **Facilitated strategic planning workshops with executive leadership** to define roadmaps for 8 cross-functional PMO initiatives, accelerating decision cycles by 25% and securing alignment on +\$1M in planned investments.
- **Managed a pipeline of 12 concurrent projects** via a standardized governance framework in Palantir Foundry and Excel, boosting on-time delivery from 70% to 92% and ensuring every deliverable mapped back to investor KPIs.
- **Partnered with private equity sponsors** to codify 15 performance metrics in a live Board Reporting app, driving a 20% uplift in operational KPIs and surfacing +\$500K in efficiency opportunities.

### Incepta Analytics – New Private Equity

New York, New York

Forward Deployed Engineer

June 2025 – Present

- **Built and maintained Transforms Code repositories in Foundry**, authoring PySpark ETL modules that process CRM and engagement data weekly, reducing downstream data errors by 50%.
- Orchestrated large-scale Pipeline Builder workflows for **incremental and snapshot transforms, embedding LLM-driven enrichment functions that slashed end-to-end runtimes by 30% and unlocked near real-time data availability for Sales and Finance.**
- Prototyped and deployed AI models in Foundry Code Workspaces, **including PyTorch churn-prediction models, fine-tuned LLMs, and semantic search pipelines; integrated these into the Model Catalog and Ontology for reusability across decision-support apps.**
- Designed and deployed AI Agents in Foundry as **autonomous copilots for leadership workflows, combining retrieval-augmented generation (RAG), ontology-aware reasoning, and risk classification, to auto-summarize initiatives, detect churn signals, and drive Decision Board accountability; reduced executive prep cycles by 80%.**

### Florida Solar Energy Center

Cocoa, Florida

Research Assistant – Machine Learning Engineer

October 2022 – July 2023

- **Engineered** a scalable AWS data pipeline (Glue, EMR, S3, Lambda) ingesting 500GB/week of streaming sensor and structured data; **orchestrated** large-scale PySpark ETL (Spark SQL) with automated missing-data imputation and **optimized** preprocessing, reducing pipeline runtime by 20% and cutting compute costs by ~\$2K/month.
- **Developed and fine-tuned** advanced time-series forecasting models (including a Temporal Fusion Transformer) using Python, TensorFlow, and distributed PySpark on EMR to process 500GB+ datasets; **boosted** prediction accuracy by 25% and **deployed** models to AWS SageMaker for scalable real-time inference.
- **Deployed** end-to-end ML services by integrating **Spring Boot** microservices with AWS Lambda triggers and SageMaker endpoints; **automated** real-time model serving and streaming data pipelines, ensuring high scalability with minimal downtime.

### PwC

Milan, Italy

Data Engineer Intern | ML Ops & AI Ops

May 2022 – July 2022

- **Engineered** high-performance data pipelines and advanced data models within **Palantir Foundry**, leveraging **Pipeline Builder and Code Repositories** to handle multi-terabyte structured banking datasets; significantly enhanced data readiness for ML workflows and achieved a **10%+ reduction in deep learning model training time.**
- **Optimized** distributed data pipelines using PySpark within Foundry to process millions of financial records for a leading Italian bank. Realized a **15% improvement in data flow efficiency** and boosted cloud processing performance for AI workloads through fine-tuned Spark job orchestration and data partitioning strategies.

## EDUCATION

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University of Central Florida | College of Engineering and Computer Science

Orlando, Florida

Bachelor of Science in Computer Information Technology

August 2025

- 2x President's Honor Roll, 4x Dean's List Award, Meritage Homes Scholarship | **GPA: 3.6/4.0**

## CERTIFICATIONS

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- **IBM AI Engineering** | Deep Learning with Tensorflow and PyTorch, Fine tuning transformers, AI Agents with LangChain and Rag, LLM Architecture and Data preparation, NLP and Language understanding
- **IBM AI Developer** | Prompt Engineering, AI Applications Development with **IBM WatsonX**, Python for AI

## TECHNOLOGIES

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- **Languages** | Java, Python, TypeScript/JavaScript
- **AI / ML Tooling** | TensorFlow, PyTorch, scikit-learn, LangChain, LlamaIndex, Hugging Face, MLflow
- **Cloud and DevOps** | AWS, Azure, Docker, Terraform, GitHub Actions, CI/CD
- **Palantir Foundry** | Pipeline Builder, Code Repos, AIP Logic, AIP Agents, Countour, Workshop
- **Front-end** | React, Angular, Tailwind CSS