

Nicolas Slenko

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EDUCATION

University of Florida

Gainesville, FL

Bachelor of Science in Computer Science, Minor in Statistics, A.I Certificate GPA: 4.0

Aug 2023 – Dec 2026

- **Relevant Coursework:** Fundamentals of Machine Learning, Machine Learning Engineering, Information and Database Systems, Operating Systems, Introduction to Computer Organization, Algorithm Abstraction and Design, Data Structures and Algorithms, Introduction to Probability, Introduction to Statistics Theory, OOP

EXPERIENCE

Roblox

San Mateo, CA

Software Engineer Intern

May 2026 – Aug 2026

- **Created** 4 production candidate generators using Airflow, PySpark, and a scikit-learn GBDT, surfacing **261** unique child endangerment cases daily and closing **33%** of the recall gap.
- **Architected** a Dockerized taxonomy pipeline via Kubeflow, leveraging UMAP/HDBSCAN clustering and LLM labeling to identify, categorize, and rank critical detection gaps for new ML models.
- **Fine-tuned** an 8B Llama 3.1 judge via LoRA on Ray Train using a **3×** expanded dataset, raising CE detection recall by **10** points and reducing false positives by **75%**.

Regal Rexnord

Grafton, WI

Machine Learning Operations Intern

Jun 2025 – Aug 2025

- **Engineered** scalable Python/Snowflake ETL pipelines to unify millions of disparate supply chain ERP records, cutting manual validation by **80%** and optimizing downstream analytics latency.
- **Developed** a custom Entity Resolution framework that programmatically identified and eliminated **20%** of duplicate product records across legacy data silos.
- **Orchestrated** distributed batch inference pipelines on Databricks via MLflow, boosting match accuracy by **25%** and increasing throughput **5×** using Sentence-BERT embeddings, TF-IDF, and HDBSCAN clustering.

LightBox

Shelton, CT

Software Engineer Intern

May 2023 – Jul 2023

- **Automated** multi-source data recovery processes with a Python CLI, reducing query execution latency by **50%** while integrating automated data-validation checks.
- **Developed** and deployed interactive geospatial data visualizations using ArcGIS Online to support scalable customer analytics, increasing baseline sales team insights by **20%**.

PROJECTS

Verba - Student & Alumni Network | Next.js, React, TypeScript, Supabase, PostgreSQL

Jan 2026 – Present

- **Partnered** with 3 university organizations to deploy a cross-major networking MVP, accelerating student-to-alumni mentorship and professional connections by **40%**.
- **Architected** a unified relational schema in PostgreSQL utilizing Supabase Auth and Realtime features to aggregate comprehensive student profiles, streamlining corporate recruiter discovery pipelines.

Vistern - UF Undergraduate Research Project | Next.js, React, TypeScript, OpenAI

Aug 2025 – Present

- **Conducting** research with Dr. Amanpreet Kapoor on a full-stack platform that parses engineering resumes and leverages LLM-based algorithms to generate optimized career placement recommendations.
- **Built** a resume parsing and recommendation system that increased personalized feedback accuracy by **50%**.

Everyday Object Classification Project | PyTorch, Python, Matplotlib

Mar 2025 – May 2025

- **Achieved 78.43%** test accuracy across **12** classes (**+70.87 pp** vs. 7.56% baseline) by constructing a CNN.
- **Improved** reliability on high-impact classes to **85–89%** and accelerated model selection by applying targeted regularization and instrumenting Matplotlib visualizations with learning curves and per-class metrics.

SKILLS

- **Languages:** Python, C++, TypeScript, SQL, Java
- **ML & Data:** PyTorch, TensorFlow, Hugging Face, Ray Train, LLMs, PySpark, Airflow, Trino, Databricks, Snowflake, Scikit-learn, UMAP, HDBSCAN, MLflow
- **Dev Tools & Cloud:** AWS, Docker, PostgreSQL, React, Next.js, Supabase, FastAPI, Spring Boot, Cursor