Nicolas Slenko

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Education

University of Florida Gainesville, FL

Bachelor of Science in Computer Science, Minor in Statistics, GPA: 4.0 *Aug 2023 – May 2027*

- Relevant Coursework: Fundamentals of Machine Learning, Machine Learning Engineering, Operating Systems, Data Structures and Algorithms, Introduction to Computer Organization, Programming Fundamentals in Python and C++, Discrete Math, Calculus III, Linear Algebra with MATLAB, Introduction to Probability, Introduction to Statistics Theory
- **Deloitte Mentorship Program**

Experience

Machine Learning Operations Intern June 2025 – Aug 2025

Regal Rexnord *Grafton, WI*

- **Developed** Python/Snowflake pipelines to unify millions of SAP/Oracle ERP records, **improving data quality** and reducing manual validation by **80%**, enabling faster and more reliable reporting.
- **Created** a master record framework to standardize product data across ERP systems, **eliminating 20% of duplicates** and streamlining downstream analytics.
- **Implemented and deployed** ML models (HDBSCAN, TF-IDF, Sentence-BERT, RapidFuzz) on Databricks with PySpark, **boosting match accuracy by 25%** and increasing inference throughput **5**× in production.

Machine Learning Engineer Intern Oct 2024 – Dec 2024

Naval Surface Warfare Center *Remote*

- **Implemented** reinforcement learning (DDPG) in MATLAB for airfoil design, achieving **50% aerodynamic efficiency gains**.
- **Migrated** legacy MATLAB code to Python, improving scalability and ease of integration with modern ML workflows.

Software Engineer Intern May 2023 – Jul 2023

LightBox *Shelton, CT*

- **Built** a Python CLI to automate disaster-recovery data setup, **cutting query times by 50%** and accelerating client response during crises.
- **Created** interactive ArcGIS Online maps to visualize geospatial data, supporting sales teams and client delivery.

Projects

Club Companion — Student & Club Matcher | *Next.js, FastAPI, PostgreSQL, Docker* Mar 2025 – Present

- **Developed** a full-stack platform that matches students with university clubs through personalized discovery and filtering.
- **Collaborating** with university organizations to scale access campus-wide and increase student engagement.

Autonomous Vehicle Project | *Python, TensorFlow, Raspberry Pi* Aug 2023 – May 2024

- **Trained** traffic-sign and obstacle detectors with Haar classifiers and AdaBoost, achieving **80%+** detection accuracy in simulation.
- **Enhanced** decision-making latency by **15%** through optimized image preprocessing and classifier tuning.

Discord User Enhancement Research Project | *Python, Flask, HTML/CSS/JavaScript* Jun 2022 – May 2023

- **Built** a Discord enhancement tool with a Flask backend and web interface to support moderation and improve user experience.
- **Released** the app to **250+ downloads**, iterating features based on user feedback.
- **Presented** research findings at the **2023 Fairfield University Research Symposium** with Dr. Mirco Speretta.

Technical Skills

Languages: Python, C++, Java, JavaScript, TypeScript, HTML/CSS, MATLAB
Frameworks: Spring Boot, Flask, TensorFlow, PyTorch, React, Next.js
Developer Tools: Visual Studio, PyCharm, CLion, IntelliJ, DataGrip, Docker, MySQL, Snowflake, Databricks, PySpark