

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

Incoming Software Engineer Intern

May 2026 – Aug 2026

Roblox

San Mateo, CA

- Incoming internship scheduled for Summer 2026.

Machine Learning Operations Intern

June 2025 – Aug 2025

Regal Reznord

Grafton, WI

- **Engineered** a Python/Snowflake pipeline to unify millions of SAP/Oracle ERP records, improving data quality and cutting manual validation by **80%**, enabling faster and more reliable reporting.
- **Standardized** product data across ERP systems by creating a master record framework, **eliminating 20% of duplicate records** and streamlining downstream analytics.
- **Deployed and optimized ML models** (HDBSCAN, TF-IDF, Sentence-BERT, RapidFuzz fuzzy matching) 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

- **Increased aerodynamic efficiency by 50%** by implementing a reinforcement-learning (DDPG) agent in MATLAB for airfoil design optimization.
- **Reduced drag coefficients by 20%** through physics-informed reward shaping, integrating XFOIL and Blade Element Momentum (BEM) theory.

PROJECTS

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

- **Launched** a full-stack platform that matches students with university clubs via personalized discovery and filtering.
- **Partnering** with university organizations to scale platform 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.
- **Improved** 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 improve moderation and user experience.
- **Deployed** the app and reached **250+ downloads**, iterating on features based on user feedback.
- **Presented** 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