

LUKE SUTOR

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EDUCATION

University of Florida – Gainesville, FL

Graduating Spring 2026

Bachelor of Science in Computer Science; Minor in Statistics

GPA 4.0 / 4.0

- **Coursework:** Data Structures and Algorithms, Operating Systems, Algorithm Abstraction and Design

EXPERIENCE

Gaming Analytics Inc.

San Francisco, CA

Software Engineer Intern (Data Science)

May 2024 – Present

- Training in-house transformer models using HuggingFace for named entity recognition, enhancing the precision and speed of the plaintext to graph query pipeline
- Using AWS services including Lambda, S3, and SageMaker to deploy the enhanced pipeline to production for use by hundreds of casino operators

William Ryan Group

Remote

Software Engineer Intern

Jun 2023 – Aug 2023

- Developed a casino data analysis system for evaluating employee response times across customer tier levels
- Empowered managers with targeted performance insights in 73% less time
- Cleaned, filtered, and generated data visualizations in real-time using Python, VBA, and Excel

Pilot Media AI

Tallahassee, FL; Remote

Software Engineer

Dec 2021 – Jul 2022

- Built an AWS pipeline to digitize and analyze documents using machine learning and natural language processing
- Reduced documents' analysis time by 94.4% by utilizing AWS Textract, S3, Lambda, SQS, and SNS

SELECTED PROJECTS

Programmatic Pitch – Diffusion-Based Music Synthesis

- Adapted and trained a denoising diffusion model in PyTorch to generate Mel Spectrograms of LoFi beats
- Presented at the University of Florida's 2024 Spring Undergraduate Research Symposium

Guitar Solo Classification – CNN Audio Classification

- EfficientNetV2 trained to classify guitarists based on Mel Spectrograms of their guitar solos
- Achieved 87% accuracy on the complete dataset at the end of 300 epochs of training

Semantic Search Extension – GPT-Powered Question Answering Extension

- Published Chrome Web Store extension with 200+ users that analyzes text from websites for question answering
- Uses OpenAI's GPT-3.5-turbo API with a React frontend and handles server calls with the Axios package

AWARDS

UF Artificial Intelligence Scholars Program (2023 & 2024 Award Recipient)

Apr 2023 – Present

- Competitive research program sponsored by the UF Center for Undergraduate Research and UF AI² Center
- Applied funds from the UF-FAMU NSF grant (\$3,500) to develop and train a diffusion model and generative adversarial network for music synthesis under the mentorship of Professor Amelia Winger-Bearskin

Gartner Group Scholarship

Apr 2023 – Present

- Selected as one of five UF Computer & Information Sciences & Engineering student award recipients

PROFICIENCIES

Programming Languages: Python, C++, JavaScript, Java, SQL, VBA, HTML, CSS

Skills & Frameworks: PyTorch, AWS, Git, React, Next.js, TailwindCSS