

# Logan Bolton

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## EDUCATION

**Auburn University**

**B.S. in Computer Science, Minor in Statistics**

**Expected Graduation: May 2026**

*GPA: 3.82*

Computing Research Association Outstanding Undergraduate Researcher Award – Honorable Mention

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, C#, SQL, Java, HTML/CSS

**Frameworks/Libraries:** PyTorch, NodeJS, Pandas, Matplotlib, ASP.NET, Scikit-learn,

**Tools:** Linux, Git, Docker, AWS, Azure

**Certifications:** Azure Fundamentals (AZ-900) – Microsoft Certification in Cloud Computing

## EXPERIENCE

**Machine Learning Engineer Intern**

Summer 2025

*Corvid Technologies*

*Huntsville, AL*

- Trained transformer-based models to predict radar cross section (RCS) responses for 3D objects in high fidelity physics simulation software, resulting in 27% less prediction error than previous in-house methods.
- Deployed models to company servers with a user friendly graphical interface built with Gradio to allow users to run and view the results of models without any technical knowledge.
- Built a scalable data pipeline using NumPy and PyArrow to process terabytes of raw simulation data to enable the training of physics informed neural networks.

**Undergraduate Researcher - Machine Learning**

June 2024 – Present

*Dr. Nguyen's Artificial Intelligence Lab*

*Auburn, AL*

- First-authored a paper in ACCV (5.6% oral acceptance rate) examining how and why models like ChatGPT fail on extremely simple visual tasks. **Cited 175+ times** and featured in technical reports by researchers from **OpenAI**, **Google DeepMind** and **Anthropic**.
- Collaborated with researchers from Adobe to determine what percentage of real world Photoshop use cases could be automated by image-editing AI models, publishing the findings in a first-author paper at WACV 2026.

**Full Stack Web Developer Co-Op**

August 2022 – August 2024

*Campus Web Solutions*

*Auburn, AL*

- Used C#, ASP.NET, JavaScript, and SQL Server to build a user lookup and permissions tool for staff, saving ~4 hours/week of manual work.
- Rebuilt common search queries using indexed views, reducing average response time from 6.2 seconds to 180ms.

## PROJECTS

**Facebook Marketplace Deal Finder** | *NextJS, PostgreSQL* | [Link](#)

2026

- Developed an automated pipeline that scrapes Facebook Marketplace listings and uses OpenAI's API to estimate fair market value, notifying the user of items priced 30%+ below predicted value.
- Built a full-stack application with a Next.js frontend, Python backend, and PostgreSQL database that displays Marketplace listings alongside AI-generated fair market value estimates.

**Wordle Reinforcement Learning Agent** | *LLMs, Reinforcement Learning, PyTorch* | [Link](#)

2025

- Finetuned an open-source LLM and trained with reinforcement learning to improve the model from only being able to complete 0.1% of Wordle games to successfully completing 18% of games.
- Discovered and fixed a memory leak bug in ByteDance's open-source reinforcement learning training framework *verl* in order to train a model efficiently.

**Spotify Playlist - AI Cover Generator** | *Django, AWS, Generative AI* | [Link](#)

2024

- Developed an AWS-hosted Django webapp, leveraging Spotify's official API and multiple AI models to automatically create visual representations of users' Spotify playlists.
- Created a program to summarize playlist metadata using the Spotify API and used this information to have an LLM prompt a diffusion image model for a stylistically similar playlist cover.