

DANNY GOLDBLUM

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TECHNICAL SKILLS

Programming Skills

Python (TensorFlow, PyTorch), SQL (MySQL, Snowflake), C++, Docker, TypeScript, Git, AWS, CUDA

Critical Skills

Machine Learning, Reinforcement Learning, Data Analysis and Engineering, Probabilistic Inference, Statistical Analysis, Deep Learning, Time-Series Forecasting, GenAI, Natural Language Processing, Transformers, LLMs, APIs, Full Stack Engineering

Certifications | Amazon Web Services Cloud Practitioner

EXPERIENCE

Freelance Software Engineer

March 2025 – Present

Carrington Farms

- Engineered an automated logistics data pipeline with integrated notification systems, streamlining data collection and analysis to achieve a 5× reduction in manual workload and near real-time reporting
- Created custom APIs for program integration with Azure, shipping partner databases, and email systems

Stamford Wrecking Company

- Developed book-to-bank reconciliation automation software, eliminating manual financial reconciliation
- Built end to end automated web-scraping system that aggregates and submits contract bids, cutting human processing time from 30 hours to 4 hours per week, accelerating turnaround by 85% and improving operational throughput

Underwriting Intern | North (formerly NAB)

May 2024 – August 2024

- Developed data analysis pipelines to optimize merchant underwriting outcomes, reducing pend rates by 20% to reach ideal market ratio
- Built performance models and dashboards in Python + Snowflake, improving analyst efficiency by 17% and accelerating new underwriter training

Machine Learning Intern | Stamford Wrecking Company

June 2023 – August 2023

- Constructed neural networks to predict Estimate at Completion and Earned Value Management System plots with 92% accuracy, reducing costs by 12%.
- Developed unsupervised learning algorithms to identify patterns and principal components affecting construction and demolition project costs

Research Technician | WashU School of Medicine, Major Lab

October 2019 – December 2022

- Conducted Mass Spectrometer data analysis and engineering on data generated from hundreds of protein sequences
- Delivered data visualizations and insights to both technical and non-technical stakeholders

EDUCATION

Fordham University | Master of Science in Computer Science

May 2025

Cumulative GPA | 4.00/4.00

Awards and Honors | Phi Kappa Phi Honor Society

Washington University in St. Louis | Bachelor of Arts in Biology

December 2022

Awards and Honors | Academic Dean's List, May 2021 | Chimes Junior Honorary Member, May 2021

PUBLICATIONS

Master's Thesis | [Linked Here](#)

- Researched and developed a generalized Bayesian inference algorithm for non-linear latent variable models to study correlation analysis between brain regions

LEADERSHIP & TEACHING

Coach | Central Rock Gym

February 2023-Present

- Lead a recreational teen climbing team; coached younger children and adults in skill progression and safety
- Developed lesson plans and guided athletes in building confidence, teamwork, strength, and resilience

PROJECTS

Earnings Call Risk Prediction Model

- Used NLP to extract, learn, and analyze hundreds of recorded financial institution earnings call transcripts.
- Developed a voting-based regression system for risk prediction with up to 96% accuracy

Large Language Model

- Built and finetuned a transformer from the ground up with OpenAI's **Tokenizer API**, **TensorFlow**, and **HuggingFace**.

SKILLS and INTERESTS

Problem Solving, Critical Thinking, Adaptability, Project Management, Collaboration, Communication, Leadership, Design
Rock Climbing, Snowboarding, Special Needs Snowboard Instruction, Hiking, Mountaineering, Music, Community Service