

GABE ARGUSH

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PROFESSIONAL SUMMARY

Results-driven Senior Analyst and Machine Learning practitioner with 5+ years of experience architecting data-driven fraud prevention systems that protect millions of customers. Proven ability to reduce complex, multi-dimensional datasets into management insights and risk reduction outcomes. Combines skilled judgment, versatile knowledge, and advanced ML — designing strategies and experiments that supplement automated systems. Currently pursuing an M.S. in Computer Science (ML Specialization) at Georgia Tech.

PROFESSIONAL EXPERIENCE

Senior Analyst, AI & Risk Intelligence — Intuit Jun 2023 – Present

New York, NY

- Lead end-to-end data and trend analysis for the Trust & Safety fraud analytics team, supporting a customer base of 100M+ users and resulting in a 40% reduction in fraud and a 20–30% increase in customer satisfaction within a six-month window.
- Architected and launched the 'ATO Funnel' initiative — a full-lifecycle visualization platform tracking bad-actor journeys from initial sign-in through loss events, resulting in better decision-making for leadership and cross-functional policy teams.
- Worked cross-functionally with product managers, data engineers, and subject-matter experts to design and execute experiments that resulted in reduced financial exposure while improving the user experience across the Intuit product platform.
- Developed and maintained dashboards for real-time model performance monitoring and tracking — including third-party service integrations — improving both fraud detection rates and overall platform confidence.

Associate Analyst, AI & Risk Analysis — Morgan Stanley Jul 2020 – May 2023

New York, NY

- Built and refined fraud prevention models supporting 10M+ customer brokerage and bank accounts, driving 20–50% pre-deployment performance increases through improved features and model validation.
- Led performance monitoring and fraud trend detection programs, resulting in identification of emerging threats before they impacted production.
- Optimized model coverage and detection, proactively preventing an estimated \$2–3M in annual fraud losses.

Founder & Inventor — Collarator LLC Apr 2013 – Sep 2019

Marlboro, NJ

- Founded and built an IoT startup from concept to prototype; created a GPS-enabled wearable device for pet tracking using custom geofence algorithms and location logic.
- Independently acquired knowledge in microcontroller programming required to develop hardware, firmware, and support applications — demonstrating a hands-on, technical problem-solving capability.
- Built and led a cross-functional team of 10 across technology, marketing, and finance, overseeing a product development roadmap and go-to-market strategy.

EDUCATION

M.S., Computer Science — Machine Learning Specialization 2023 – Present

Georgia Institute of Technology

Relevant Coursework: Deep Learning, Machine Learning, Bayesian Statistics, Natural Language Processing, ML for Trading, Game AI

B.S., Systems and Information Engineering | Engineering Business Minor Aug 2016 – May 2020

University of Virginia — cum laude

Relevant Coursework: Stochastic Decision Models, Linear Statistical Models, Financial Engineering, Risk Analysis

CERTIFICATIONS

- Neural Networks and Deep Learning — deeplearning.ai / Coursera
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization & Optimization — deeplearning.ai / Coursera
- Machine Learning — Stanford University / Coursera

NOTABLE PROJECTS & RECOGNITION

Explorer51: Indoor Mapping & Navigation for an Autonomous Mobile Robot*Aug 2019 – Apr 2020*

- Designed and programmed a fully autonomous robot leveraging AI, deep learning, and information engineering to perform real-time indoor mapping, discovery, and navigation tasks.
- Co-author on peer-reviewed publication: G. Argush et al., "Explorer51 — Indoor Mapping, Discovery, and Navigation for an Autonomous Mobile Robot," 2020 Systems and Information Engineering Design Symposium (SIEDS).

"America's Greatest Makers" — Intel National Competition*Nov 2015 – Feb 2016*

- Selected as a national semifinalist in Intel's televised "Shark Tank"-style competition recognizing innovative microcontroller product applications, demonstrating entrepreneurial initiative and technical depth at an early stage of career.

TECHNICAL SKILLS & INTERESTS

Core Competencies: Data Science · Machine Learning · Fraud Analytics · Statistical Modeling · A/B Testing & Experimentation · Risk Analysis

Platforms & Tools: Cursor · Claude Code · AWS · Databricks · Snowflake · Tableau · PostgreSQL · Microsoft Office Suite

Programming Languages: Python · SQL · R · C/C++ · Java · LaTeX

Interests: Classical Piano · Electronic Music Production · Investing & Quantitative Trading · Cryptocurrency · eSports