

Zain Ghazanfar

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EDUCATION

Georgia Institute of Technology

Expected Dec 2026

B.S. in Computer Science, Minor in Business Leadership

Atlanta, GA

Courses: Data Structures & Algorithms, Object-Oriented Principles, Intro to AI, Computer Systems & Networks

Awards: Zell Miller Scholarship, Dean's List | *GPA:* 3.98/4.0

EXPERIENCE

Software Engineer (Co-Founder)

Jan 2024 – Present

Zaphor Solutions

- Scaled an Amazon business to over \$200K in revenue through FBM and FBA by building Python-based automation systems to track inventory, analyze sales trends, and optimize pricing across 70+ SKUs
- Used Python and keyword data analysis to restructure Amazon PPC ad groups, improving conversion rate by 20% and reducing ACoS across multiple listings
- Developed forecasting models to maintain a 95% in-stock rate, automating reorder logic and vendor coordination

Software Engineering Intern

Jul 2024 – Present

Georgia Institute of Technology, ACT Lab

- Built and optimized deep and reinforcement learning models (CNN, RNN, DQN) in PyTorch to improve trajectory planning and lane changes
- Led a subteam of 3 undergraduates in refining CNN and DQN models for behavioral cloning and control tasks
- Utilized GAIL and Transformer-based models to simulate and predict human-like driving behavior in connected vehicles
- Integrated CARLA simulator to create high-fidelity training environments for autonomous agents in various scenarios

Software Engineer Consultant

Dec 2022 – May 2024

Endor Media

- Engineered scalable AI-powered automation scripts using Python to streamline client acquisition workflows
- Designed and deployed interactive data dashboards by integrating GoHighLevel APIs with custom frontend components, enabling real-time visualization of campaign KPIs, lead generation metrics, and sales performance
- Improved website speeds and SEO by implementing server-side rendering, minimizing render-blocking resources, and optimizing JavaScript bundles, resulting in a 2.3x faster load time and enhanced Google Core Web Vitals

Applied Data Science Researcher

Jan 2023 – May 2023

Georgia Institute of Technology, SMART Lab

- Built Jupyter-based Python scripts to analyze switching dynamics in PZT thin films, improving research efficiency
- Developed custom data visualization tools using Matplotlib to effectively display experimental findings and trends
- Implemented GIWAXS dataframes and pandas to classify, preprocess, and analyze large-scale research datasets

PROJECTS

Piclasify | *Python, TensorFlow, OpenCV, Pandas, Scikit-Learn, Matplotlib*

- Fine-tuned a pre-trained VGG16 model for image classification on CIFAR-10, achieving nearly 85% accuracy
- Built a reproducible data preprocessing pipeline using OpenCV and Pandas to normalize, augment, and prepare image data for model training
- Improved model generalization by conducting systematic hyperparameter optimization across dropout rates, batch sizes, and learning rates using TensorFlow callbacks to prevent overfitting and accelerate convergence

AWARDS AND ACHIEVEMENTS

Eagle Scout

Jun 2023

National Merit Semifinalist

Sep 2022

SKILLS

Languages: Python, C, C++, Java, JavaScript, TypeScript, Go, HTML/CSS, Swift, R, Assembly, LaTeX

Frameworks & Tools: AWS, Docker, React, Node.js, Flask, FastAPI, Git, JUnit, Supabase, MongoDB, PostgreSQL, SQLite, TensorFlow, PyTorch, OpenCV

Concepts: Machine Learning, REST APIs, Cloud Infrastructure, CI/CD, Web Development, Deployment, Concurrency

Soft Skills: Agile Methodology, Collaboration, Leadership, Communication, Problem Solving