

Zain Ghazanfar

U.S. Citizen | Atlanta, GA | 470-621-2799 | z.ghazanfar922@gmail.com | linkedin.com/in/zainghazanfar

EDUCATION

Georgia Institute of Technology <i>B.S. in Computer Science, Minor in Business Leadership</i> <i>Courses:</i> Data Structures & Algorithms, Object-Oriented Principles, Intro to AI, Computer Systems & Networks <i>Awards:</i> Zell Miller Scholarship, Dean's List <i>GPA:</i> 3.94/4.0	Expected Dec 2026 Atlanta, GA
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EXPERIENCE

Incoming Software Engineer Intern <i>Arrowstreet Capital</i>	June 2025 – Aug 2025 Boston, MA
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Software Engineer (Co-Founder) <i>Zaphor Solutions</i>	Jan 2024 – Present Alpharetta, GA
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- 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 <i>Georgia Institute of Technology, ACT Lab</i>	Jul 2024 – Present Atlanta, GA
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- 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 <i>Endor Media</i>	Dec 2022 – May 2024
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- 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 <i>Georgia Institute of Technology, SMART Lab</i>	Jan 2023 – May 2023 Atlanta, GA
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- 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 <i>Python, TensorFlow, OpenCV, Pandas, Scikit-Learn, Matplotlib</i>
<ul style="list-style-type: none">• 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