Carl Paolino

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EDUCATION

Georgia Institute of Technology   Atlanta, GA
Bachelor of Science in Computer Science, Minor in Mathematics   *August 2023 – May 2027*
- Concentration in Intelligence and Information Internetworks
- Coursework: Data Structures & Algorithms, Computer Organization, Design & Analysis of Algorithms, SQL, Artificial Intelligence, Data Input/Manipulation, Linear Algebra, Object Oriented Programming

EXPERIENCE

Software Engineer Contractor   October 2025 – Present
Foundry AI   *Atlanta, GA*
- Designed and implemented an AI testing pipeline for unit, integration, and end-to-end tests with CI integration, environment-specific configurations, automated LLM-as-Judge scoring, cost analytics, and reproducible, budget-aware execution to achieve $\geq 90\%$ accuracy on golden test benchmarks
- Developing an AI-powered conversational pipeline with a live dashboard and chatbot interface, allowing users to query data and receive real-time, context-aware responses generated through SQL and LLM inference
- Preparing to deploy to Azure Cloud environment with end-to-end monitoring, audit logging, and alerting while conducting stakeholder acceptance testing and implementing automated evaluation workflows

Software Developer Intern   July 2025 – August 2025
Healthmap Solutions   *Tampa, FL*
- Developed an internal web tool with Python, React, and Django to serve as a test harness for health analytics and care coordination
- Learned about deployment to a serverless application using AWS Lambda connected to an RDS database, with automated CI/CD pipelines through GitHub Actions

Undergraduate Researcher   January 2025 – May 2026
Georgia Institute of Technology   *Atlanta, GA*
- Improving the design and implementation of a forest-fire prevention drone communication system
- Developing a Google Cloud-based data pipeline connecting a Raspberry Pi drone system to Firestore, enabling real-time telemetry and live video streaming via Cloud Run and Pub/Sub

PROJECTS

InvestIQ | *Electron.js, FastAPI, Python, Scikit-learn, Raw/Live datasets*   July 2025 – Present
- Developing an AI-powered investment assistant using Python, market data APIs, and LLMs to provide personalized trading insights
- Fine-tuning learning models with regression for predicting stock activity based on raw and live datasets of global and personal trade history
- Designing an overlay UI to display live AI investment suggestions produced from LLM training

CS 3600 | *NumPy, Pandas, Python, TensorFlow, PyTorch*   July 2025 – July 2025
- Developed goal-state detection, successor functions, and heuristic evaluation for agents to explore, plan, and achieve objectives
- Explored reinforcement learning algorithms (Value Iteration, Policy Iteration, and Policy Extraction) to solve Markov Decision Processes
- Implemented Q-Learning algorithm to train autonomous agents in TextWorld-Express environments, optimizing policies for tasks such as coin collection and map navigation

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, SQL, TypeScript
DevOps and & Analytics: CI/CD, Git, Docker, Pandas, NumPy, Excel
Developer Tools/Methods: Git/GitHub, SDLC, Agile, Google Cloud Console, AWS, PostgreSQL, MongoDB
Frameworks/Libraries: React, PyTorch, TensorFlow, Scikit-learn, Django, Dialog Flow CX/ES