

# Alexander Hussein

Cumming, GA | alex@alexhusseini.com | (404) 615-5258 | [linkedin.com/in/alexhusseini](https://www.linkedin.com/in/alexhusseini) | [github.com/AlexHusseini](https://github.com/AlexHusseini) | [alexhusseini.com](https://alexhusseini.com)

## Education

### Kennesaw State University

#### Bachelor of Science in Software Engineering

Minor in Cybersecurity

- 4x Dean's List

May 2026

3.6 GPA

## Technical Skills

- Advanced- Python, TypeScript, SQL, NumPy, Pandas, PyTorch, Flutter, Dart, React, JavaScript, Git, SQLite, PostgreSQL, Firebase
- Proficient- Java, Node.js, Express, Next.js, Redux, HTML, CSS, Tailwind CSS, Docker, Matplotlib, AWS, PyQt5, Xcode

## Professional Experience

### RS Photographies - Lead Full Stack Developer

March 2025 - April 2025

- Redesigned and deployed a mobile-optimized photography portfolio site using Firebase and Squarespace, increasing load speed and usability across 20+ pages
- Integrated mobile-optimized galleries viewed across 20+ pages, boosting visual engagement metrics by ~30%; configured secure email forwarding to improve client communication response time
- Managed 15+ GitHub iterations, resolving client requests in under 48 hours and reducing launch time by 30%

## Projects

### Options Alpha Toolkit – Quantitative Options Analysis Platform

Python, PyQt5, NumPy, Pandas, Matplotlib, SciPy

Dec. 2024 – Present

- Engineered a Python-based desktop application to evaluate high-alpha options contracts, improving scan efficiency by 50% using custom metrics for execution cost, volatility edge, and Greek behavior
- Developed a PyQt5 GUI with embedded Matplotlib visualizations and Monte Carlo simulation to backtest option strategies across 1,000+ stochastic price paths
- Enabled batch analysis of CSV datasets and live filtering by DTE, delta, liquidity, and volatility skew, streamlining contract evaluation by 70%

### LyteWeight – Cross-Platform Mobile Fitness App

Flutter, Dart, SQLite, Firebase, Python (AI API module)

Feb. 2025 – Present

- Developed a cross-platform fitness app with Flutter, enabling users to log workouts, view progress trends, and receive GPT-powered training feedback across iOS and Android devices
- Scaled to 500+ monthly active users by optimizing performance, enabling 98% session reliability through offline-first storage and real-time Firebase sync
- Created a GPT-powered assistant that generated personalized training plans based on user goals and behavior, boosting workout retention during beta by 40%

### TSMocker – Type-Safe Mock Data Generator CLI

TypeScript, Node.js, ts-morph, Faker.js, Commander, Jest

May 2025 – Present

- Created a CLI utility to generate 10,000+ mock data entries from TypeScript interfaces, supporting complex types and helping developers rapidly prototype APIs and seed test environments
- Leveraged the TypeScript Compiler API to parse schema files and synthesize type-accurate mock objects at scale (up to 10,000 records per run)
- Delivered modular CLI components with 90%+ test coverage and TypeDoc-generated documentation, increasing maintainability and preparing for public GitHub release and npm publishing