

Brennan Davenport

(678) 521-3406 | brennandavenport3@gmail.com | github.com/brennandavenport | linkedin.com/in/brennan-davenport

EDUCATION

University of Georgia

Athens, GA

B.S. in Computer Science & B.S. in Mathematics, GPA 3.73/4.00

Expected Graduation: May 2027

TECHNICAL SKILLS

Coursework: Algorithms, Data Structures, Systems Programming, Discrete Math, Networks, Architecture

Languages/Tools: C++, Python, Java, JavaScript, C#, React, Django, Spring Boot, .NET, Azure, Git, Linux

Trading Competitions: 8th Georgia Tech, UMich (5th Jane Street, 5th Citadel, 9th Optiver), MathDash (Finalist)

EXPERIENCE

Software Engineer Intern

May 2026 – August 2026

Jane Street

New York, NY

- Wrote Ocaml
- Optimized suboptimal code
- Lost 30K

Software Engineer Intern

May 2025 – August 2025

Western Alliance Bank

Dallas, TX

- Migrated FOREX trading services from Finzly to ION, yielding low-latency (less than 100ms), 99.9% uptime, and full regulatory compliance to support high-volume financial transactions and real-time data
- Identified bottlenecks in reading JSON files in Azure and built a scalable SQL Server database with a C# API pipeline processing 10,000+ records/month, eliminating delays and accelerating team throughput
- Engineered a CLEAN-architecture server template with 6 JWT-authenticated endpoints, adopted as the foundation for 14+ new services, standardizing secure, production-ready backend development across the team

Software Engineer Intern

June 2024 – September 2024

Category Creations

Athens, GA

- Developed a scalable routing solution using Google Apps Script to optimize routes for over 300 stores
- Increased routing accuracy by 20% through integration of K-nearest neighbor, two-opt, and three-opt algorithms
- Created a fully automated system that routes new store addresses instantly, handling all geocoding, distance math, and optimization; eliminating manual input and saving 50+ hours per month

PROJECTS

Exchange | C++, Concurrency

January 2026

- ...
- ...

Bermuda Option Pricing | Python, PyTorch

March 2025

- Developed DeepBermuda, a neural network-augmented Longstaff-Schwartz Monte Carlo (LSM) algorithm for pricing Bermudan, American, and European options, targeting complex multi-asset OTC derivatives
- Replaced traditional poly regression with a FNN to better approximate continuation values in high-dim options
- Benchmarked pricing accuracy against standard LSM using mean squared error and performance across varying volatility, moneyness, and dimensions (1D-10D)

LEADERSHIP & ORGANIZATIONS

Corsair Society | Co-head class 2028

November 2025 – Present

- Taught over 150 leetcode questions to aspiring prompters

Traders@UGA [[Link](#)] | Founder & President

January 2025 – Present

- Founded Traders@UGA, a quant trading club focused on projects, trading comps, and industry events with DRW
- Managed recruitment of 200+ applicants with a selective 5.5% acceptance rate and accepting 11 members

ICPC@UGA | Member, Codeforces Rating - 1458

January 2025 – Present

- Placed 4th in ICPC North American Southeast Division 2025 - Division 1
- Placed 10th in ICPC North American Regional Qualifier 2025 - Division 1

Honors & Activities | Mahjong@UGA, Eagle Scout, Resident Assistant, ChessDawgs, Club Tennis