Stephen Linder

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EDUCATION

Georgia Institute of Technology
Atlanta, GA

Computer Science Major, Math Minor — *Graduating December 2026*

- GPA: 4.0
- Relevant Coursework: Data Structures and Algorithms, Design and Analysis of Algorithms, Computer Networking, Computer Systems and Networks, Computer Organization and Programming, Objects and Design, Linear Algebra, Introduction to AI
- Concentrations: Artificial Intelligence and Information Internetworks

EXPERIENCE

Software Engineer Intern
Atlanta, GA

FanDuel — *May 2025 – Aug. 2025*

- Leveraged Spring Boot with low-latency Redis cache to increase user sign-up verification success by 3%
- Created Prove API endpoint to enhance fraud check effectiveness by 34%
- Configured AWS SNS queues with Terraform to support message delivery in development environments
- Decoupled dependencies in Spring Boot microservices using SOLID principles
- Raised Jest unit test coverage from 74% to 97% on React customer data pre-fill repository
- Created Amplitude A/B test to experiment with production-level PII pre-fill logic modifications

Networking Researcher
Atlanta, GA

Advanced Networked Systems Research Lab at Georgia Institute of Technology — *July 2025 - Present*

- Researching algorithmic improvements of CPU efficiency for datacenter workloads using C and C++
- Using kernel bypass methods to improve packet processing over current Linux standards
- Implementing parallelization algorithms and server-side sockets in distributed systems to improve TCP/IP efficiency

PROJECTS

Event-Driven Backtester | *C++, Quantitative Finance* — Github Link

- Implemented a low-latency backtesting environment in C++
- Tested various trading strategies on historic datasets by generating market events and simulating slippage
- Used pybind11 to allow for interfacing between C++ code and Python modeling tools

Atlanta Food Finder | *Python, Django, JavaScript, HTML, CSS, SQLite, Ajax, Agile* — Github Link

- Developed a full-stack web application using Django and Google Maps API
- Visualized Atlanta restaurants on Google Maps by accessing geolocation data from SQLite database
- Implemented Google Maps search capabilities to allow user interaction with restaurant data from Yelp Fusion API
- Became adept in Agile development, utilizing scrums and CI/CD

Multithreaded Process Scheduler | *C, pthreads*

- Utilized multithreading to build Linux process scheduler
- Managed CPU resources by scheduling processes on CPU cores and removing them for I/O bursts
- Optimized CPU usage by using various scheduling algorithms, including round-robin, preemptive priority scheduling, and shortest remaining time first

Virtual Memory System | *C, Memory Management*

- Developed a virtual memory manager which mapped virtual memory pages to physical frames
- Designed page replacement algorithm to efficiently select victim frame upon page faults
- Created a daemon process to track page references and evict least recently used pages

TECHNICAL SKILLS

Languages: C++, C, Java, Python, JavaScript, TypeScript, Terraform, HTML, CSS, SQLite, SQL, MATLAB, Assembly
Frameworks: Django, ReactJS, Spring Boot, JUnit, Redux
Developer Tools: Docker, Rancher, Kubernetes, Linux, DBeaver, Git, GitHub, GDB, IntelliJ, VS Code, PyCharm, Datadog, Eclipse, Jupyter, Postman
Libraries: pthreads, SciPy, NumPy, pandas, PyTorch, Pybind11, Qiskit, Beautiful Soup, Zustand, Redis