Stephen Linder

Software Engineer

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Education

Georgia Institute of Technology — Atlanta, GA

Computer Science and Mathematics Double-Major, Russian Minor — *Graduating May 2026*

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

Experience

Software Engineer Intern — Atlanta, GA

Fanduel — *May 2025 – Aug 2025*

- Incoming Software Engineer Intern at Fanduel

Medical Robotics Research Intern — Atlanta, GA

Winship Cancer Institute of Emory University — *May 2024 – Aug. 2024*

- Implementing robotic arm interface in Dr. Amir Pourmorteza's Lab
- Creating novel Python library to segment robotic arm movement for machine learning imaging
- Developed MATLAB code to determine absolute position of robotic arm when connected to CT scanner

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 events and simulating slippage
- Currently expanding environment to allow for live data flows and machine learning trading strategies

Atlanta Food Finder | *Python, Django, JavaScript, HTML, CSS, SQLite, Ajax, Agile, DOM* — 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, HTML, CSS, SQLite, SQL, MATLAB
Frameworks: Django, Node.js, Angular, ReactJS, JUnit
Developer Tools: Docker, Linux, Git, GitHub, GCC/GDB, IntelliJ, VS Code, PyCharm, Eclipse, Jupyter, React
Libraries: pthreads, SciPy, NumPy, pandas, PyTorch, Pybind11, Qiskit, Beautiful Soup