

# Alexander Gaskins

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## EDUCATION:

**Stevens Institute of Technology** | Hoboken, NJ

Bachelor of Engineering in Computer Engineering

May 2023

GPA: 3.721

**Awards:** Edwin A. Stevens Scholarship, Eric Young Scholarship, Dean's List

**Coursework:** Data Structures and Algorithms, Systems Engineering, Microprocessor Systems

## WORK EXPERIENCE:

**Wells Fargo Bank** | New York, NY

**Systems Operations Engineer**

5/23–Present

- Leverage ITRS Geneos to manage infrastructure for applications spanning over 100 servers, implementing state tracker optimizations for backend services critical to calculating greeks for options positions.
- Diagnose and resolve critical trading application issues, such as pricing malfunctions including stale PnL Attribution (PLA) and disrupted order flow, in collaboration with equity derivatives traders, increasing pricing system efficiency by 25%.
- Automate error detection scripts using *Python* and *Bourne shell*, and enabling real-time transaction error detection from user logs rather than relying on interface error alerts in equity trading interfaces (e.g. Fidessa and WEX), reducing detection time by 30% and uptime by 5%.

**Software Engineer Intern**

5/22–5/23

- Enhanced UI/UX and frontend systems using *React.js*, incorporating grid coverage analytics and Apache HBase insights into a responsive and user-friendly GUI, leading to a 10% increase in user engagement.
- Conducted comprehensive unit testing via *SonarQube* to ensure the stability and reliability of financial pricing tools, enabling quants to produce accurate risk calculation models.
- Collaborated with an Agile development team to design and implement scalable, efficient solutions for trading platforms, ensuring code quality through thorough reviews and optimizing deployment workflows using Jenkins pipelines to reduce deployment times and improve system adaptability.

**American Dragon Fine Art** | Lancaster, PA

**Frontend Developer**

5/21–5/22

- Designed and developed [americandragonfineart.com](http://americandragonfineart.com) with a modern, responsive user interface tailored to the fine art industry, featuring bilingual support in English and Mandarin Chinese.
- Implemented advanced frontend technologies, including *HTML5*, *CSS3*, and *JavaScript*, to create a visually engaging and accessible user experience.
- Liaised with stakeholders to understand their needs and translated them into functional features.

**Smartable IoT** | Alicante, Spain

**Software Engineer Intern**

5/20–8/20

- Developed an iOS app for 500+ users to facilitate networking among digital nomads, leveraging *Swift* and *Firebase* for seamless functionality.
- Strategized app development methodologies along with teammates, constructing various prototypes and analyzing competition.
- Engaged in Scrum calls with teammates from Spain and Japan, fostering cross-cultural collaboration while coordinating software improvements.

## ACADEMIC PROJECTS:

**Stevens ECE Department** | Hoboken, NJ

Pathosense

1/22–5/23

- Led development of a sentiment analysis tool in *Python* to assess text-based data.
- Integrated a *React.js* frontend and hosted the application on *GitHub* Pages for seamless access.

## SKILLS:

**Programming Languages:** Python, JavaScript, C++, Swift, ARM Assembly, HTML, CSS

**Frameworks/Tools:** React.js, ITRS Geneos, Firebase, Git, SQL, SonarQube, Jenkins, Fidessa

**Operating Systems:** Linux (Ubuntu), RHEL, macOS, Windows

**Other Skills:** Scripting, Automation, Circuit Prototyping/Testing, Soldering