

# Leland Ly

## Software Engineer

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### 🎓 EDUCATION

#### Accelerated BS/MS in Computer Science, Drexel University

Sep 2019 – Jul 2023

- Pursuing a Masters in Artificial Intelligence/Machine Learning in 2024
- Honors student at Pennoni Honors College

GPA: 3.80

### 💼 PROFESSIONAL EXPERIENCE

#### Software Developer, Susquehanna International Group, LLP (SIG)

Mar 2022 – Present

Philadelphia, PA

- Developed and maintained full-stack .NET services for the Fixed Income trading desk
- Launched two algorithmic trading applications to automate the submission and cancellation of fixed-income securities
- Pioneered a major transition of the team's software data message protocol from TIBCO Rendezvous to an internal framework utilizing UDP/IP

#### Teaching Assistant, Drexel University

Sep 2021 – Mar 2022

Philadelphia, PA

- Managed over 130 students through multiple courses, including "Software Development" and "Systems Programming"
- Created Python scripts used to grade student submissions with adaptive feedback
- Hosted dedicated tutoring hours throughout the week

#### Software Developer Co-op, Vanguard

Sep 2020 – Mar 2021

Remote

- Collaborated with a team of developers to create Jakarta RESTful Web Services
- Deployed several financial programs to both US and UK regions
- Maintained a continuous delivery pipeline using Bamboo and automated tests using Junit

#### Mentee, Merck

Sep 2018 – Jun 2019

North Wales, PA

- Participated in the development of several statistical projects using the R programming language
- Explored industrial projects that closely relate to statistical analysis via code

### 📁 PROJECTS

#### Discord Automated Chat Bots, C#, Discord, Git

Dec 2022 – Present

As a personal project, I developed a suite of ongoing projects to enhance the functionality of an online messaging platform. Projects are hosted on a server and can be publicly integrated into Discord.

#### Job Search Dashboard (Drexel)

Sep 2022 – Jun 2023

As part of my senior project, we created a web dashboard that displays visualizations for jobs in the United States. The dashboard scrapes real-time data from Indeed.com, and stores data in an AWS SQL database.

#### Live Order Check Service (SIG), C#, DevExpress, Perforce, TeamCity

Aug 2022 – Oct 2022

To culminate my time at SIG, I created a service that will periodically inspect outgoing RFQs and run pricing algorithms against live market data. The application will send cancels if the market conditions become unstable for this security, saving the firm from an unfavorable trade.

#### Goal Projections Facade (Vanguard), Java, Bitbucket, Bamboo, Jira, Splunk

Jan 2021 – Mar 2021

Utilizing an AI model, GPF generates glide paths for our clients' future financial goals. It then produces a percent success rate for each goal based on data pulled from other Vanguard systems. GPF was deployed to both US and UK, and gained live user traffic.

#### Group Casino (Drexel), <https://github.com/sacred-chime/casino-project>

Sep 2021

Collaborating with four other students, we created a fully functional online casino website, consisting of four playable games revolving around a universal "wallet". It was coded in React/Typescript and utilized a PostgreSQL database.