ALLY RILLING

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Education

University of Wisconsin - Madison   Graduation December 2023
- Majors: Computer Science (B.S.) and Finance, Investment, and Banking (B.S.)
- Grade Point Average: 3.927
- Relevant Business Coursework: Derivative Securities, Asset Pricing and Leverage, Corporate Finance, Investment Theory, Financial Markets and Economic Activity
- Relevant Computer Science Coursework: Building User Interfaces, Introduction to Algorithms, Theory of Programming Language Design, Database Management Systems, Computer Graphics, Statistics, Linear Algebra

Experience

Charles Schwab | Chicago, Illinois   June 2023 - Present
Software Engineering Intern

Charles Schwab | Westlake, Texas   June 2022 - August 2022
Software Engineering Intern
- Architected and implemented (in .NET and C#) the backend for a new options expiration assignment risk monitoring feature that created alerts for customer accounts with risky options spreads.
- Utilized knowledge of options to gather requirements from business users for the new options assignment risk alerts.
- Developed a workflow in PEGA that parsed the backend assignment alert output and displayed data to end users.

Professor Sebastien Plante | Madison, Wisconsin   January 2022 - Present
Teaching Assistant
- Animated and edited over a dozen 5-15 minute videos covering financial concepts such as feasible and efficient portfolios, short selling, and the statistical analysis of equities.
- Designed graphics and assets to illustrate investing concepts.
- Assisted in the restructuring of course content to utilize Python for teaching investment theory.

Personal Projects   October 2020 - Present
- Used ReactJS to build Options Visualizer, a website that visualizes options spreads and allows users to input custom spreads.
- Built FinTools, a website that consolidates several useful tools for financial calculations, including calculating options payoffs and greeks using the Black-Scholes model.
- Created Penguin Workouts, a pleasantly designed and user configurable workout app on iOS built with Swift and SwiftUI.

Wells Fargo | Remote   June 2021 - August 2021
Software Engineering Intern
- Utilized Selenium to write over 20 UI automation test cases for two different webpages.
- Mapped elements of webpages to variables in code using Xpaths so that their attributes could be validated.
- Created a workflow for scanning and validating the contents of auto-generated PDFs.
- Worked in an Agile environment and participated in Scrum ceremonies on two different teams.

Skills and Certifications

Programming Languages
- Java
- Python
- JavaScript / HTML / CSS
- SQL
- C# / .NET
- C / C++

Software Proficiencies
- Figma
- Git (GitHub and Bitbucket)
- Jira
- IDEs: Visual Studio, JetBrains IDEs, Xcode, Eclipse, VS Code
- Excel / Powerpoint

Certifications
- Bloomberg Market Concepts
- Wisconsin School of Business: Excel Proficiency

Extra-Curricular Activities

UW - Madison Track Club | September 2019 - Present