
ALLY RILLING

allyrilling.com | 262-402-8959 | anrilling@wisc.edu | Madison, WI

Education

University of Wisconsin - Madison | Graduation December 2023

GPA: 3.927

- Majors: Computer Science (B.S.) and Finance, Investment, and Banking (B.S.)
- Relevant Business Coursework: Derivative Securities, Asset Pricing and Leverage, Corporate Finance, Investment Theory, Financial Markets and Economic Activity
- Relevant Computer Science Coursework: User Interfaces, Algorithms, Theory of Programming Languages, Database Management Systems, Computer Graphics, Statistics, Linear Algebra

Experience

Charles Schwab | Chicago, Illinois

June 2023 - August 2023

Software Engineering Intern

- Clarified the support structure of security margin data by creating a new cloud-based, .NET service that exclusively handled database write functionality.
- Gathered requirements, implemented, tested, and released to production portfolio margin eligibility features to enhance order management and loan origination workflows.
- Identified and fixed a security margin data look up bug which impacted pledged asset loan origination.

Charles Schwab | Westlake, Texas

June 2022 - August 2022

Software Engineering Intern

- Architected new options expiration assignment risk monitoring alerts that created cases for customer accounts with risky options spreads and implemented the backend logic using .NET and C#.
- Utilized knowledge of options to gather requirements from business users for new options assignment risk alerts.
- Developed a workflow to display new assignment risk alerts to end users by parsing case data from the option expiration service's backend with PEGA.

University of Wisconsin - Madison | Madison, Wisconsin

January 2022 - Present

Investment Theory 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.

Wells Fargo | Remote

June 2021 - August 2021

Software Engineering Intern

- Automated over 20 UI test cases across several workflows to decrease manual testing, utilizing Selenium.
- Created an automated workflow for scanning and validating the contents of auto-generated PDFs.

Personal Projects

October 2020 - Present

- Created Options Visualizer, a website that visualizes custom options spreads, using ReactJS.
- 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, user configurable workout app on iOS built with Swift and SwiftUI.

Core Qualifications

Programming Languages

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

Software Proficiencies

- Figma
- Jira
- IDEs: Visual Studio, IntelliJ, Xcode, Eclipse, VS Code
- Excel / Powerpoint

Skills and Tools

- Git (GitHub, Bitbucket)
- Agile
- Object oriented programming
- SOLID design principles
- ReactJS

Extra-Curricular Activities

UW - Madison Track Club | September 2019 - Present
