

# SCOTT S. CARVALHO

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## WORK EXPERIENCE

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### Readwise, US – Remote (US)

*Software Engineer Intern*, Jan 2025 – Aug 2025

- Developed Apple Notes integration using Python/Django, Typescript/React, and Electron, enhancing user experience.
- Improved PDF experience by implementing a new PDF parser and LLM-powered metadata extraction layer.
- Built app features across iOS, Web, and Desktop, developing with Python/Django, TypeScript/React, and Electron/Tauri.

### Northeastern University - Khoury College of Computer Science, Boston, MA

*Teaching Assistant*, Summer 2024 – Fall 2024

- Assist in teaching DS2000 to 130 students, guiding first-time Python users through foundational concepts.
- Support during lab sessions and office hours, addressing students' questions and challenges.
- Teaching Assistant for CS 5001 (Foundations of Computer Science) and DS 2000 (Programming with Data)

### State Street Global Markets - State Street Associates, Cambridge, MA

*Quantitative Researcher*, 2021 – 2023

- Responsible for driving securities finance research, development, and applications.
- Worked across all aspects of indicator development, from idea creation to research, backend, and deployment.
- Managed development of key product tools: custom benchmarking, portfolio investigation, and automated reporting.
- Built indicator products used by some of the world's largest and most sophisticated institutional investors.
- Collaborated with industry leaders and academics to co-author a white paper on integrating securities lending and ESG.
- Youngest presenter at two State Street Annual Research Retreats, including 100+ clients.
- Mentored and managed junior employees on projects to improve internal research tools.

### State Street Global Markets - Professional Development Rotational Program, Boston, MA

*Senior Associate*, 2019 – 2021

- Rotated through four groups within Global Markets - Securities Finance Algorithmic Trading Group, Quantitative Risk, Currency Management, and State Street Associates.
- Built a real-time market monitoring dashboard using Python (dash package), HTML, CSS, JavaScript, and SQL.

### Fidelity Investments

*Intern*, Family Office Services, Boston MA, Summer 2018

*Intern*, Market Data Services, Merrimack NH, Summer 2017

- Provided data analysis and reporting for Portfolio Communications, Data Strategy, and Portfolio Analyst teams.
- Led an independent project to automate market data reporting and searching using Splunk software.

### Bentley University Service-Learning, Waltham, MA

*Special Project Assistant*, 2016 – 2018

- Designed and created a functional user interface for Bentley's Service-Learning and Civic Engagement Office to track 1,000+ students/year and 60+ community partners. Collaborated with professors and university staff.

## EDUCATION

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### Northeastern University-Khoury College of Computer Sciences, Boston, MA

MS, Computer Science, GPA 4.0, January 2024-Present

### Bentley University, Waltham, MA

BS, Major Finance, Minor Computer Information Systems, cum laude, May 2019

### Vienna University of Economics and Business, Vienna, Austria

Exchange Student, Fall 2017

**Activities:** Varsity Men's Lacrosse, Club Hockey Team, Bentley Investment Group, Trading Society-CIO

## TECHNOLOGY SKILLS & FRAMEWORKS

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*Languages:* (Proficient) Python, TypeScript/JavaScript; (Basic) Java, C, Rust *Frameworks:* Django, React, Tauri, Electron

## PUBLISHED WORK

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Whitmore, T., Carvalho, S., Wang S., (2021). Integrating ESG Considerations into Sec. Lending. The Risk Management Association