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EDUCATION

Wheaton College

Bachelor of Music with Elective Studies in Computer Science

- GPA: 3.58. Blanchard Presidential Scholar

2019 - 2023

Wheaton, IL

RELEVANT COURSEWORK

- CSCI 335 - Software Development
- CSCI 345 - Data Structures & Algorithms
- CSCI 371 - Database Systems
- CSCI 243 - Discrete Mathematics and Functional Programming
- CSCI 351 - Intro to Computer Systems
- CSCI 445 - Analysis of Algorithms
- CSCI 235 - Programming I: Problem Solving
- CSCI 245 - Programming II: Object-Oriented Design
- MATH 245 - Linear Algebra

EXPERIENCE

Full-stack Software Engineer

Jun 2023 - Present

First Trust Portfolios

Wheaton, IL

- Developed new systems to ingest investment account data from external APIs, automating portfolio tracking and financial modeling systems
- Built backend and UI to support new product lines, including trade execution workflows and a financial advisor analysis dashboard
- Replaced multiple spreadsheet-based workflows with a 3-tier application, automating analysis and compliance processes while eliminating risk of data entry error
- Continuously support and improve internal web and Windows applications, enhancing accuracy and efficiency in daily pricing, analysis, and reporting

Software Development Intern, Research & Admin Systems

Sep 2022 - Dec 2022

First Trust Portfolios

Wheaton, IL

- Migrated a Windows desktop application to a web-based React/Node.js platform, improving accessibility and multi-device compatibility

Software Development Intern, Enterprise Systems

May 2022 - July 2022

First Trust Portfolios

Wheaton, IL

- Built a distributed desktop app to view and manipulate ETF holdings using Delphi and internal libraries
- Delivered final product demo to senior engineering and product teams

Data Analytics Intern

Jun 2021 - Aug 2021

Center for Vocation and Career, Wheaton College

Wheaton, IL

- Examined professional competencies of Wheaton alumni in relation to their college preparation
- Presented a mobile app interface to Vocation & Alumni Engagement staff as a solution for improving CVC outreach

PROJECTS

ProGrammar | *JavaScript, CSS, HTML, Firebase, Node, Webpack*

2022

- A touch-typing web application intended for coding students or professionals to develop their speed and accuracy.

Trade Execution Platform | *Delphi, SQL Server, Prisma ORM, External APIs*

2025

- A fully-featured portfolio management system and trade execution platform for equity, option, and mutual fund trades. Includes a manual file system to handle brokers that utilize spreadsheet-based trade workflows.

Portfolio Data Integration | *OpenAPI, REST, Prisma ORM, React, TypeScript, Delphi*

2024

- A complex system to automate investment account data syncing between internal platforms and external financial providers. Includes a highly scalable back-end that aggregates registered investment advisors' client account data from multiple custodians. The front-end provides real-time data status updates.

ORG Reimbursements Automation | *Delphi, SQL Server*

2024

- An end-to-end system for tracking and reconciling organizational fee reimbursements across multiple trusts. The custom UI includes visual indicators and approval workflows for users. Replaces a spreadsheet-based workflow, automating much of the auditing process while also providing increased override capabilities and more robust handling of edge cases.

TECHNICAL SKILLS

Languages: Delphi, TypeScript, Java, JavaScript, Python, C, SQL, HTML/CSS

Developer Tools: VS Code, RAD Studio, Eclipse, Google Cloud Platform, Firebase, LaTeX

Technologies/Frameworks: GitHub, React, Node, Webpack, Prisma ORM