Logan Schelly

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Work Experience

Executive Assistant and Quantitative Researcher — Alamo, CA
Tanius Technology LLC — Aug 2020 – Aug 2022
- I assisted a co-owner of Tanius, a proprietary trading firm with 35 employees.
- I researched the market events prior to trades with a team. A trader on the team used the research to profitably market make oil futures. I significantly sped up our SSIS and C# pipeline for the project by both using HTCondor and rewriting a data structure.
- I fixed some bugs in monthly volume statistics and Twilio-based phone alerts with our live recordkeeping and pricing software. A mentor then worked with me on the software to optimize the use of SQL queries in its electronic OTC blotter.
- I wrote a visualization tool for a bond futures trader for the volume of buy and sell trades during regional trading hours.
- I used BeautifulSoup, Python, and Google Sheets with Zillow data to create scatter plots of the price-per-square foot of previous home sales. This reduced the amount of time the owner and his contractor spent deciding on fix-and-flip homes from half a day to half an hour.
- I handled several states' tax issues resulting from COVID-related employee relocations.
- I transitioned the company to a new payroll provider, and started running payroll.
- I researched 401(k) plans and did employer-side administration after the owner chose a plan.

Head Upper Division Tutor — Provo, UT
BYU Math Lab — Sep 2014 – April 2020
- Tutored college math from pre-calculus to differential equations.
- Conducted weekly prep meetings for my 10-20 fellow tutors.
- Coordinated and taught exam reviews for class sizes ranging between 10 and 200.
- Rewrote the tutor handbook, and wrote a proofs section for the application test.

Education

Bachelors of Science in Mathematics — April 2020
Brigham Young University
- Applied and Computational Mathematics Emphasis (ACME) with a CS minor.
- Coursework on machine learning, control theory, optimization, and systems programming.

Skills

Programming Lanugages: Python • C • C++ • C# • Java • JavaScript

Other Tools: LaTeX• Spreadsheets • SQL • Git • HTML

Soft Skills: Tutoring • Public Speaking

Projects

Math Lab Student Sign Up Analysis — Fall 2019 – Winter 2020
- Consolidated data spread across 60+ Excel files.
- Used Pandas to analyze the almost 900,000+ instances of students signing up for tutor help.
- Identified busiest times of the week, and the topics students most often came in for help with.

Hobbies and Interests

Running • Hiking • Biking • Church Hopping • Scenic Routes