

Skills

Languages: Rust, C++, Python, Elixir, HTML, CSS

Technologies: Git, AWS, Unix/Linux, SQL, Docker, Excel

Leadership: 2 years' experience creating and managing Agile teams; Organized milestones, projects, and workflows

Communication: 5+ years of experience explaining complex solutions to non-technical stakeholders

Education

Bachelor of Arts Triple Major in CS, Econ, and Honors | Seattle Pacific University | Seattle, WA **June 2023**

- Primary Major: Computer Science
- Secondary Major: Economics – Financial Economics
- Tertiary Major: Honors Liberal Arts
- Awarded President's Merit Scholarship
- Relevant Coursework: Principles of Microeconomics, Financial Accounting, Data Structures I and II, Calculus I

Experience

Software Engineer I | Capital Prawn, Inc. | Redmond, WA **Sept. 2020 – Present**

- Designing, building, and deploying a market-making bot to provide \$23,000 in liquidity to securities markets
- Creating library that provides functionality to transmit data and place orders using ErisX WebSocket and REST API
- Developing alongside financial experts to guide the strategy of Capital Prawn's market making bot

Director | Open Quant | New York, NY **Aug. 2020 – Present**

- Started a non-profit organization to fill the need for accessible open source financial machine learning libraries
- Writing and reviewing code relating to financial data structures, ETL Pipelines, and feature discovery
- Organizing weekly meetings among board of directors to help align technical milestones with long-term vision

Software Engineer Intern | Capital Prawn, Inc. | Redmond, WA **May 2020 – Sep 2020**

- Developed a backtester to analyze the performance of different algorithmic trading bots using Rust and Python
- Created bots in Rust and Python to test the predictive accuracy of trading strategies such as SMA Crossovers
- Utilized ML models and ETL methods to perform feature selection on raw market data to predict price changes
- Developed data pipeline using Pandas, Matplotlib, and NumPy that receives input data, computes technical indicators, and uploads information to an S3 bucket in Amazon Web Services
- Wrote Elixir library that interfaces with Polygon.io's REST API to seamlessly retrieve various types of market data

Co-Founder | Tutorly LLC | Seattle, WA **Jan. 2020 – October 2020**

- Designed and deployed a web-scraping Python bot that uses LXML to parse COVID-19 cases from Seattle Pacific University's website and used SMTPLib to email everyone who has signed up at www.tutorly.app/covid
- Stress-tested the bot to accommodate exponential user growth with 150 sign-ups in the first 3 days
- Guided team members through agile workflows and trained developers on Tutorly's technology stack

Software Engineer Intern | Itron, Inc. | San Diego, CA **July 2019– Sept. 2019**

- Optimized and developed an IoT device capable of regulating power throughout the island nation of Tonga
- Tested hardware components such as VEML7700 (Lumen Sensor) and MKR WAN 1300 (Arduino)

Awards

Startup Grant | Seattle Pacific University Launch Fund **May 2020**

- Applied for and was awarded a \$2,000 grant to help finance Tutorly's development process

People's Choice Award | Seattle Pacific University Business Plan Competition **Apr. 2020**

- Voted best startup proposal after creating a comprehensive business plan; presented market research, financial projections, SWOT analysis, and risk projections at a live event to a panel of over 30 Seattle-area business experts