

ALEX WALLISH

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👤 awallish

EXPERIENCE

Software Engineering Intern

Qualtrics

📅 Jun 2020 – Aug 2020

📍 Seattle, WA

- Worked on the dashboards platform team to make data visualizations faster and more interactive.
- Improved a service that cached data on the back-end, significantly improving average page load times.
- Built an event driven system in JavaScript allowing users to apply page filters by clicking on data points.
- Implemented a feature on top of D3.js allowing users to drill down on specific data points.

Software Engineering Intern

Tesla

📅 Mar 2020 – Jun 2020

📍 Palo Alto, CA

- Used Python threading library to create a background queue for processing longer running tasks.
- Added WebSockets to Flask app to give users visibility into background threads.
- Proposed and prototyped storing data in a graph database instead of Postgres.
- Modeled data in Neo4j in a way that allowed for a flexible search experience and significantly faster queries.
- Used Python logging library to wrap Flask endpoints and log requests.
- Built a portal in Flask for viewing logs, managing metadata, and scraping new data.

Software Engineering Intern

Belvedere Trading

📅 Jan 2020 – Mar 2020

📍 Chicago, IL

- Developed an exchange simulator in C++ built to mimic the ARCA options exchange.
- Implemented code for reading binary messages from clients and parsing them into meaningful orders.
- Spun off multiple processes and threads to handle connections from many clients at once.
- Implemented an order book and matching engine according to the ARCA spec.
- Learned how the firm models and prices options.

Software Engineering Intern

Barclays Investment Bank

📅 Jun 2019 – Aug 2019

📍 New York, NY

- Built a web app to simplify compliance workflow for equity researchers.
- Built a Java Spring app for consuming and processing multiple internal APIs.
- Built a front-end with Semantic UI for visualizing data from researcher's publications and generating and editing compliance reports from the data.
- Deployed app on an AWS.

EDUCATION

BS in Computer Science

University of Maryland

📅 Aug 2017 – May 2021

★ 3.7 GPA

- Teaching Assistant – Object Oriented Programming 1.
- Relevant courses: Machine Learning, Algorithms, Data Science, Data Structures, Computer Systems, Programming Languages, Bioinformatics.

LANGUAGES

Python

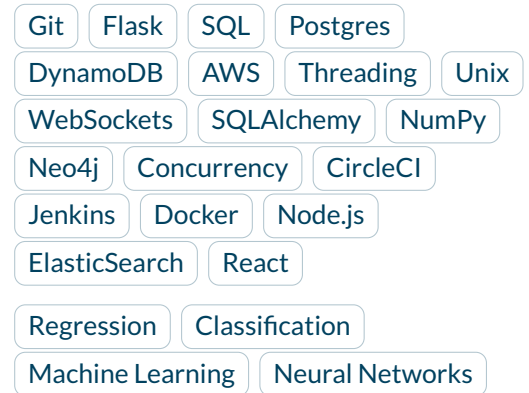
JavaScript

Java

C++



TECHNOLOGIES



PROJECTS

www.techinternship.io

📅 Aug 2019 - Present

- An app used by over 10,000 students to apply to and track internship applications.
- Stack: Python, Flask, DymanoDB, Digital Ocean, CircleCI, WebSockets, Apache.

www.matchbox.vc

📅 Feb 2020 - Apr 2020

- A platform for connecting founders and investors.
- Stack: Python, Flask, DynamoDB.