

TAREQ ALYOUSEF

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WORK EXPERIENCE

Wolverine Trading

Software Engineer Intern

June 2022 - August 2022

Chicago, IL

- Incoming C++ Software Engineer Intern working on low level systems

Amazon

Software Development Engineer Intern

January 2022 - April 2022

Seattle, WA

- Worked on a team for AWS that builds core distributed computing algorithms for various services
- Created a data visualization tool for hosts in a distributed computing system in a full-stack environment
- Presented insights from dozens of data sources in one dashboard to improve team productivity
- Demonstrated ability with ReactJS, Redux, NodeJS, GraphQL, and Java

iD Tech Camps

Private Instructor

May 2021 - August 2021

Remote

- Taught game design with Unity3d/C# and 3D modeling with Blender as a private instructor
- Demonstrated ability to break down complex topics to an inexperienced audience

STRENGTHS

Languages	C#, C/C++, Java, Python, HTML, CSS, JS/TS
Frameworks	Ruby on Rails, ReactJS, NodeJS, NextJS, Django
Databases	MySQL, PostgreSQL
Software	Unity3d, Blender, GIMP, Bash
Development	Unix, Git

PERSONAL PROJECTS AND ACTIVITIES

Algorithmic Trading

March 2020 - Present

- Deployed algorithmic trading strategies to Alpaca using C#
- Successfully traded a parameterless algorithm using OECD data with 25% CAGR and >2 Sharpe ratio

Backtesting CLI

December 2020

- Designed a multithreaded, command line application for testing algorithmic trading strategies using C++
- Backtests provide detailed metrics, such as the Sharpe ratio, Sortino ratio, Calmar ratio, and drawdowns
- Used AlphaVantage for data collection and Doxygen for documentation

Multiplayer Game

June 2016 - Present

- Designed a server-authoritative, competitive, multiplayer platformer using Unity3d and C#
- Modeled, textured, and animated entities with Blender and GIMP
- Implemented full client-side prediction and server-side reconciliation

Personal Website

April 2022

- Designed a personal portfolio using static site generation from Node.js
- Built website using ReactJS, NodeJS, and NextJS

EDUCATION

University of Memphis (Honors College)

August 2019 - May 2023

- B.S. in Computer Science
- Minor in Mathematics
- Concentration in Data Science
- Overall GPA: 3.94