

ALI PERVAIZ

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Skills

Experienced

Java
C++
Python
Javascript

Familiar

C
Lua
Unity

Technologies

Spring
JUnit
AAT
CouchDB
Flask
jQuery
Git
Docker
React
Vue

Activities

Competitive Programming
Hackathons
Algorithmic Trading
Intramural Sports

Education

University of North Carolina at Chapel Hill

B.S. in Computer Science and B.S. in Mathematics | December 2022

Fall Coursework: Computer Organization, Models of Languages and Computation, Algorithms and Analysis, Elementary Theory of Numbers, Linear Algebra

Past Coursework: Data Structures, Discrete Mathematics, Differential Equations, Real Analysis

Employment

CME Group

Chicago · Summer 2020

Software Engineering Intern

- Designed and implemented a mechanism to track and simulate message flow throughout CME Group's message routing application in **Java** to prevent loss of data.
- Developed a profitable trading algorithm that implements a moving average to calculate the best times to buy and sell.

State Farm

Dallas · Summer 2018, Summer 2019

Software Engineering Intern

- Developed automation tools used by State Farm agents to efficiently sell policies to customers using **Javascript** and **Gherkin**.
- Improved developer productivity by designing and implementing a **Grafana** dashboard that displays **Gitlab** statistics.
- Created a **React** web app used by State Farm developers to store and retrieve testing information.

Projects

Simply Aware

Android and Web App

- Used Google Maps' API to create a dynamic map that tracked possible outbreaks of diseases using crowd sourced data.
- Awarded 2nd place at HackDFW 2017 and Showcased at the Texas capitol for national code day.

Litterbug

React Native Mobile App

- Incentivized picking up litter by awarding users with a new currency that could be traded for real life rewards.
- Used machine learning to validate actual litter from fake litter.
- Awarded third place at EarthxHack.

Bird Watch

Flask Web App

- Paired Twitter's API with IBM Watson's sentiment analysis API to find and prevent potential cyber-bullying.
- Awarded third place at HackTheBully.

Trading Bot

C++ Program

- Executed orders using automated algorithmic trading instructions accounting for variables such as time, price, and volume.

Awards

ICPC North American Championship Qualifier	2019
Google CodeJam Round 2 Qualifier (Top 8% Out of 36k)	2020
Facebook HackerCup Top 750 (Out of 6k)	2019