PRABHNOOR SINGH CHAWLA

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EMPLOYMENT

Bridgewater Associates, *Product Engineer*, Westport, CT   Jan. 2021 - Current
- Managing a product that provides temporal security environments to developers and reducing over-exposure of secure trades by 70%
- Capturing the pain points from investment researchers and synthesizing the signals to shape product design and improve user experience
- Synthesizing the use cases from users and prioritizing feature requests to support new workflows. Additionally create new user documentation and updating them frequently
- Collaborating with different stakeholders to drive new features and brainstorming solutions with developers on enabling new workflows
- Providing operational expertise to researchers utilizing complex distributed applications for investment research and systematizing the fund's investment logic across 15 different products

Torq Labs, *Software Engineer Intern*, Madison, WI   May 2019 - Aug. 2019
-Analyzing data coming from motion sensors in Torq Smart Leggings and delivering performance metrics using Python
-Hosting the product on Amazon Web Services (AWS) to scale the users and store data (S3, EC2, Lambda)
-Classifying the activity of the user using Machine Learning Algorithms and rating the user's performance on a metric scale

University of Wisconsin-Madison, *Software Technology Trainer*, Madison, WI   Sept. 2018 - Aug. 2020
-Teaching programming workshops to students in Python and JavaScript for Software Learning and Technology Training
-Developing curriculum modules in HTML, CSS and JavaScript and assisting with the integration of technology in academic classes
-Assisting students with one-on-one consultations in data analysis primarily in SQL and VBA

University of Wisconsin-Madison, *Web Development Intern*, Madison, WI   May 2018 - Aug. 2018
-Developing websites for custom Technology Workshops using HTML, CSS, and JavaScript
-Working with the Web Development and Programming team to build an Intro to Coding workshop in Java
-Building a no-coding website development workshop that focuses on WordPress

EDUCATION

University of Wisconsin-Madison   Sept. 2017 - Aug. 2020
B.S. Computer Science
Cum GPA: 3.5/4.0

SKILLS

PROGRAMMING SKILLS: Java, Python, Scala, C++, C, HTML, CSS, Javascript, Node.js, MySQL, Linux, Git, AWS, Express.js

PROJECTS

Stock Price Predictor
Developed an application which predicts the closing stock price for different companies using Machine Learning. The application is developed in Python using an artificial recurrent neural network called Long Short Term Memory (LSTM). Key libraries used: Keras (Tensorflow), sklearn, numpy and pandas

InstaEats
Developed a web scrapping application which can look for any food at a location using Instagram's tag feature. Technologies used: HTML, CSS, JavaScript, Node.js, Express, Puppeteer

N-Gram Chatbot
Implemented a chatbot in Java by generating sentences from the Wisconsin AI100 Rejoinder Corpus (WARC) using n-gram language models and Principle Component Analysis (PCA)

Twitter Sentiment Analysis
Implemented a program in Python that determines the mood of communication on twitter based on set of tweets. The program estimates the sentiment associates with individual tweets and then update the library by estimating the unknown terms

RELEVANT COURSEWORK

Data Structures, Algorithms, Artificial Intelligence, Operating Systems, Data Management for Data Science, Computer Networks, Object-Oriented Programming, Cryptography, Machine Organizations, Multivariable Calculus, Linear Algebra, Discrete Algorithms, Human-Computer Interaction