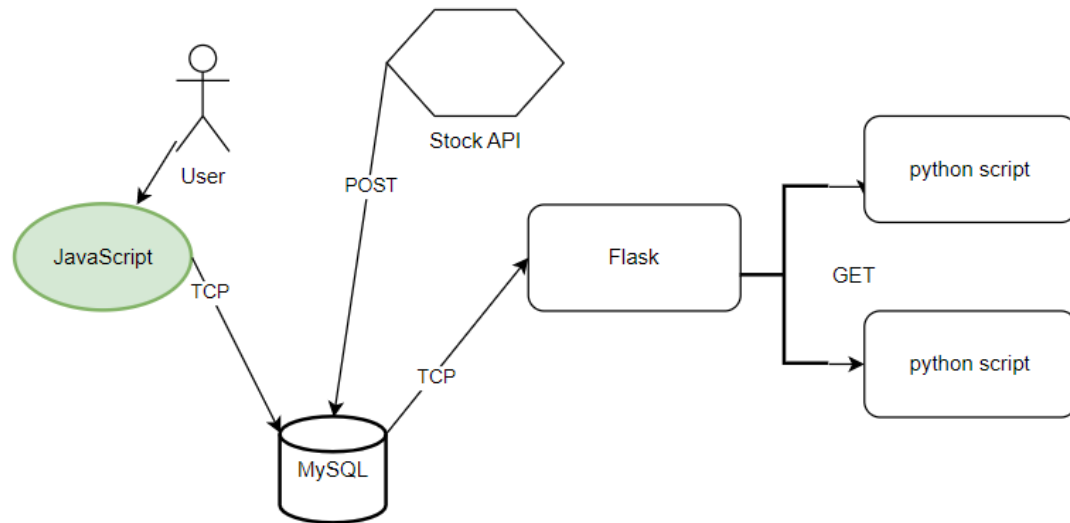Group 8: Stock market tracker

Brandon Kohler, Julia Kush, Stephen Caliendo, & Jacob Peterson

Chapter 1:
Design:

Concept:
- Get up to date prices for given equites when requested by the user.
- Get historical price graphs for 6 months, 1 year and 5 years

What we will be using:
- React and graph.js
- Data and the ability to read it
- Financial statements from API
- Yahoo Finance or Google Finance

Chapter 2:

We are going to design a WebUI that the end user will directly interact with using java script. This will include stock market information, a stock portfolio tracker, and graphs of price history and up-to-date stock pricing. The user will be able to look up a specific stock symbol and track the price of that stock using historical data. The user will also be able to see graph trends for each stock. This will connect to an API giving us up-to-date information on stock pricing. This API will be fed into our MySQL database where we can store all the historical data.

Using our data from the API we will be able to calculate certain information on the backend such as the price trends and portfolio prices. We will use flask to handle the requests and calls to the pythons script, and to retrieve data from the database.

Resources:

API: https://site.financialmodelingprep.com/
Docs: https://site.financialmodelingprep.com/developer/docs/
Concept:https://site.financialmodelingprep.com/developer/docs/realtime-stock-quote-api/#Stock-Real-time-Price
https://site.financialmodelingprep.com/developer/docs/stock-ticker-symbol-lookup-api/

Fiserv, Inc. (FISV)
NasdaqGS - NasdaqGS Real Time Price. Currency in USD

☆ Follow

👥 Visitors trend 2W ↑ 10W ↑ 9M ↑

106.40 -0.20 (-0.19%)   **109.01** +2.61 (+2.45%)
At close: February 6 04:00PM EST   Pre-Market: 8:48AM EST

Resumes:

Brandon Kohler

2679751813 | BrandonKohler2000@gmail.com | https://www.linkedin.com/in/brandon-kohler-1788391b7

EDUCATION

West Chester University | West Chester, PA

Computer Science

Honors/Awards: Deans List: Fall 2019, Spring 2020

Relevant Coursework Data Structures, Computer Systems, Cyber Security, CSC I, CSCII, CSCIII, STA200, CSC 231, CSC 241, CSC 335 CSC 496

PROFESSIONAL EXPERIENCE

Moreland Development LLC, *Office Assistant* | Philadelphia, PA 06/21-08/21

- Determined the length of time to maintain various types of documents such as tax returns, human resource records, leases, sale documents and construction documents.

- Implemented the plan by sorting through documents, reorganizing the files by project and year.

- Scanned documents to be saved electronically in the cloud for easier access

LEADERSHIP & OTHER EXPERIENCE

Computer Science Club West Chester, Pa 1/2021-Current

• Lead a group of Students to create something new and innovative to support the West Chester Community

West Chester Investment Club *Sector Head* | West Chester, Pa 09/2020-Current

Head of the IT sector, Controls the direction of the sector by analyzing groups of stocks using Time-Series Analysis

Monte Carlo, Var, Risk Analysis, Scholastic, Gamma Approximations, Sentiment Analysis using NLP

Manages a group of 3 analysts, with weekly meetings and teaching of new topics.

PROJECTS

Sudoku Solver

• My first side project is a sudoku board solver. The board solves itself using backtracking. To make this project better I will create an interactive interface using Pygame

Financial Web Scrapping

• Created a project for the investment club that used APIs to take data from a site and pulled into a data frame using panadas and sent over to excel using the writer function. This project was presented to the West Chester Investment Club

Website Portfolio

• Created a website over the summer using CSS/HTML/JavaScript to demonstrate my Dev skills

SKILLS & INTERESTS

Java, JavaScript, HTML,CSS, Swift(App/Web-Development), Python ,SPSS, MATLAB(Data-Analysis), SQL, GIT, LINUX, Bloomberg SPSS, MATLAB, Autodesk Inventor

Julia Kush

Juliaekush@gmail.com

610.937.1614

EDUCATION

West Chester University   West Chester, PA

Major: BS - Computer Science   *CUM GPA 3.75*
Minor: Applied Statistics
Computer Security Certification

Cardinal O'Hara High School   Springfield, PA
                                                                       Graudated May 2019

SUMMARY

A talented senior majoring in computer science with a focus in cyber security and statistics. I have significant experience with multiple programming languages and advanced mathematical and analytical skills. I am seeking an internship to put my skills to use enhancing network security this summer.

WORK EXPERIENCE

Universal Health Services   King of Prussia, PA
Software Engineer - Intern   *June 2022 - Present*
- Generate team project report and open incident report
- Collaborate closely with senior level developers to assist with integrated testing and documentation
- Assist with analysis on larger issues which are used by senior level developers
- Utilize SQL Server Studio to house data for projects
- Create database objects such as tables, stored procedures, and views in SQL Server Studio
- Implement SSIS packages to migrate data from data warehouse to our local data models
- Design end user reports using Power BI and SSRS Reporting tools

Telco Holdings Inc.   West Chester, PA
Computer Implementation Specialist - Intern   *May 2021 – January 2022*
- Imaged windows-based computers and Laptops
- Installed applications, VPN, and management software
- Configured user domain access
- Performed testing and configuration validation
- Boxed configured devices and worked in partnership with field deployment services
- Individually contributed and collaborated with managed services desk stakeholders

Joseph Anthony Retreat Spa   Springfield, PA
Spa Attendant   *June 2018 – July 2019*
- Communicated daily with all suppliers, ensuring proper quantities of products were fresh and delivered timely

- Supported masseuses and management
- Maintained and sanitized SPA
- Replenished stock
- Tear down and set up treatment rooms after each service
- Customer-focused services

SKILLS & CERTIFICATIONS

- **Soft Skills**
  - Goal oriented, strong networking capabilities, communication and listening skills, team oriented, flexible, time-mangement, creative thinking, organization
- **Techinical IT Skills**

  - Languages: Java, C++, MySql, R, Haskell

  - Proficient with Microsoft Suite, R-Studio, Visual Studio, GitHub, J-Grasp, Eclispe, Power BI, SSRS, SSIS, SQL Server Studio

- **Honor Roll Spring 2020, Fall 2020, Spring 2021, Fall 2021.**

STEPHEN D. CALIENDO

912 Owen Road, West Chester, PA 19380 | (484)-431-9353 | SC928713@wcupa.edu

OBJECTIVE

Apply computer science skills to software engineering opportunities in the video game industry. Expand skillset through freelance programming opportunities.

EDUCATION

B.S Computer Science | West Chester University, PA | May 2023

- Proficient in Java, C , C++, Hasskel

- Able to write code from scratch, and use public source code, to solve computer science problems

- Adept at trouble shooting and debugging code

EXPERIENCE

The Social Lounge | West Chester PA | 2018-2020 The Quarterdeck |Hilton Head Island SC | 2022-2022 Food Runner | Line Cook | Expo | Waiter

- Maintained high level of customer service

-
  Excelled in team environment

-
  Responded to and resolved problems as they arose

  SKILLS

- § Data analysis
- § JGrasp, Virtual Studio Code, Eclipse
- § Microsoft Office
- § Optimization of algorithms
- § Data Structures

JACOB PETERSON

Address: 94 Hornbean Ave, Swedesboro, New Jersey 08085 **Phone:** 484.326.4896 **Email:** jakepeterson2001@gmail.com

- PROGRAMMER –

EDUCATION

West Chester University of Pennsylvania, West Chester PA
B.S. Computer Science
Anticipated May 2023
GPA 3.6

WORK EXPERIENCE

Amazon, Logan Township, New Jersey

WAREHOUSE ASSOCIATE   **2020-Present**

- Ensuring all customer parcels are carefully packaged and shipped efficiently
- Organizing specific packages by businesses and destination
    - Collaborative with team members and management
- Perfect attendance and punctuality for 2 years

Kohl's, Media, Pennsylvania

FLOOR ASSOCIATE / CUSTOMER SERVICE   2018-2020

- Helping customers find items
- Recommending certain products based on professional experience
    - Using knowledge of the POS system to help customers purchase, return or exchange items in a quick mannerly fashion
    - Educate customers on the return policies of the company and help them choose the outcome that most benefits their experience
    - Cross trained in Customer service, Back stocking, Inventory, Homegoods, and Shoes.

ACHIEVEMENTS AND CERTIFICATIONS

- Computer Security Certificate
- Advisor to Computer Science department hiring process
- Deans list 2 semesters

SKILLS AND CODING LANGUAGES

- Proficient in Java
- Proficient in C
- Proficient in Python
- Proficient in Linux terminal environment
- Familiar with Microsoft Office Suite
- Familiar with HTML