Hanson Addo

202-751-1200 | hanson.kwadwo.addo@gmail.com | linkedin.com/in/hansonaddo | github.com/hanson-addo

Summary of expertise

Highly motivated computer science graduate seeking a software developer position to utilize my technical skills and contribute to innovative software solutions. Eager to apply my knowledge in a challenging and dynamic work environment.

Education

George Mason University   Aug 2019 – May 2023
                                                                   Fairfax, VA

Bachelor of Science in Computer Science   *Gpa 3.4*

Expertise and Specialties

- End to End testing on Java spring-boot applications and JS Framework API

- API testing using Postman and other suites of tools to check for latency

- Frontend engineering development on React

- Backend engineering API development on JavaScript

Experience

Software engineer Intern   Jan 2022 – Aug 2022

Anheuser Busch   *St Louis, MO*

- Designed and developed RESTful APIs to support a variety of front-end applications.
- Created automated unit tests ensuring high code coverage and low defect rates.
- Analyzed test results and provided feedback to development teams to continuously improve the quality of software products.
- Implemented dashboards for monitoring and tracking APIs. along with managing code through GIT
- Contributed to the development and refinement of testing processes and standards, ensuring that testing activities were aligned with project goals and best practices.

Achievements:

- Saved the tax department an estimated 1 hour per day of extra work since there was no longer the need to develop several queries on Excel to calculate updated tax reports.
- Provided shareholders easy access to obtain master data relating to their business needs. Shareholders no longer had to wait several days to obtain data as they will always have access to it once the page is refreshed.
- Save the company an average of 30 hours per week. With access to this single source of truth, data can easily be referenced by different departments without unnecessarily waiting for an email to answer questions relating to a brand or liquid.

Data Research Engineer   Aug 2020 – Aug 2022

George Mason University   *Fairfax, VA*

- Assist dissemination of research findings in conferences/webinars.
- Maintain quality standards to preserve the integrity of data and findings
- Documented the renewal process using confluence for future use.
- Built and maintained efficient and scalable databases using SQL.
- Write reports that summarize the data and the results' implications.
- Collaborated with cross-functional teams to identify and resolve defects, and communicated testing progress and results to project stakeholders. Configured and maintained CI/CD pipelines using Jenkins.

- Provided support for production deployments and performed root cause analysis for any production issues.

Projects

Server-side Business Logic and Android Client Mobile App| *Java, Android SDK, SQL,*
- An Android client application was developed to demonstrate the activities of the interaction between the server-side code with the database.
- Several Java Server Pages were also created which contained the SQL select statements to ensure that we show the data housed in the database
- Data from the database is at the customer's fingertips with a few clicks.
- A login Java Servlet was created to accept usernames and passwords which would log a customer into a website.

YouTube link: https://www.youtube.com/watch?v=t6eCpsr2P_w&ab_channel=hanson

Backend API for React App | *JavaScript, Firebase, Postman*
- I used fetch to retrieve a dataset from a remote web service.
- Data was persisted so that the same data is only retrieved from the remote web service once during the lifetime of the microservice.
- Errors generated by the third-party API were handled according to its exit status code.
- Within the node backend, I ensure that all state which is reused across different HTTP requests is persisted into my Firebase datastore.
- Within this same node backend, I retrieve data from my Firebase datastore to handle client requests.
- Several React components were created to correspond to different views.
- Performance tested the application to make sure it met specified demands using JUnit

YouTube Link: https://www.youtube.com/watch?v=KKxeBiF3r2Y&ab_channel=hanson

Interactive Frontend Development for a React App | *JavaScript, React, HTML, CSS*
- This web application provides a to-do list option where the user can input items into a list.
- Based on the severity of the items that need to be done, the user can include color options that will show which one is of the most importance.
- Red = very important, Blue = important, Green = not important at the moment.
- Implemented the grid and some other functionalities using CSS.
- Grid auto sorts itself after an element has been deleted.
- Data was persisted so that the same data is only retrieved from the remote web service once during the lifetime of the microservice.

Render Deployment URL: https://hanson-addo-swe432-hw4-11qw.onrender.com

Technical Skills

Programming Languages: Proficient in Java, C/C++, Python
Web Development: HTML, CSS, JavaScript, React
Database: SQL, MySQL,
Frameworks: React, JUnit, FastAPI, JS Frameworks
Version Control: Git, GitHub
Software Development Tools: Eclipse, IntelliJ, Visual Studio Code, Android SDK, SQL Developer, Apache NetBeans

Operating Systems: Windows, Linux

Other Skills

Problem-Solving and Analytical Skills
Strong Communication and Collaboration Abilities
Familiarity with Agile Development Methodologies

References:
Available upon request.