SYDNEE WOODHOUSE

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PROFILE

Software Engineer with a demonstrated history of working in the technology industry. Strong background in multiple programming languages with a Bachelor's degree in Information Science and Technology from Penn State University. I am seeking a role in Software Engineering where I can further expand my expertise in software development and project management to drive customer success.

EDUCATION

The Pennsylvania State University, Abington, PA
Major: *Information Sciences and Technology: Design and Development*

SKILLS

Proficient: React, Python, JavaScript, HTML/CSS
Working Knowledge: SQL, Java, C, C++
Development Environment: Visual Studio, Android Studio, NetBeans, Eclipse
Software: Docker, Linux, GitHub, Git, VMWare, Visual Studio, Cypress, Postman, Amazon Web Services, New Relic
Databases: DynamoDB, PostgreSQL MongoDB, Oracle, SAP HANA
Certificates: SAP HANA Fundamentals, ABAP – Performance Analysis, ABAP Root Cause Analysis

PROFESSIONAL EXPERIENCE

SAP Concur, Bellevue, WA April 2020 – Present
Software Engineer

- Develop React based front-end applications with reusable react components and managed application state with redux. Tests application with unit testing and Cypress testing. Use New Relic to monitor application performance and enable CloudWatch to capture logs.
- Design and implement new features for an existing application in React requested by customers. This resulted in the deprecation of the legacy application and improved end user experience.
- Streamline internal workflows by developing an API in Python that sends data regarding health statuses of Concur services.
- Develop a bot in Slack using Python that provides an improvement in customer experience and enabled the deprecation of an older service.
- Lead the creation of a design document that is used as a blueprint for our team in creating a new feature highly requested from our executive stakeholders.
- Work with the latest cloud technologies / methodologies including: AWS Dynamo DB, Cloud Formation, S3, EC2, SAP ID authentication, and agile software development.

SAP National Security Services, Newtown Square, PA March 2018 – April 2020
Support Engineer, Project Lead

- Leading Solution Manager internal upgrade project to ensure SAP NS2 internal ticketing system is able to connect to the new SAP Support Backbone infrastructure.
- Provided consultations to customers regarding Solution Documentation, Focus Insights Dashboards, etc. which increased efficiency and minimized the risk of interrupting core business processes.
- Performed SAP HANA Technical Performance Optimization Services that analyzed the current state of the customer's HANA system and provided recommendations to optimize performance.
- Worked as a De-escalation Architect for Production Down/Go Live Endangered incidents. Collaborated with the Mission Control Center to provide solutions to critical situations and help drive issues to resolution.

SAP National Security Services, Newtown Square, PA April 2017– March 2018
Software Engineer Intern

- Developed a reporting application using SAP Design Studio that displays views of all NS2 customer's critical incidents or a detailed view of a particular customer's data.
- Used HTML/CSS and BIAL scripting to add functionality and design to the dashboard. This dashboard was presented to NS2 executives on a monthly basis.
- Modeled datasets in SAP HANA using SAP HANA Studio and used an ODBC connection to access the data in Design Studio.
- Created Python scripts to automate the filtering process of excel sheets containing customer data. Scripts were able to filter out irrelevant data for the dashboard.

CLASS PROJECTS

Information Sciences, Technology Integration, and Problem Solving
Role: Lead Developer

- Enhanced the features of Hasbro Comfort Pet by adding capabilities that would be beneficial to the residents of Brandywine Living at Dresher Estates.
- Developed a trivia game in Python and used Google Text-To-Speech API to enable the Comfort Pet to say the JSON containing the trivia questions to the residents' aloud.
- Comfort Pet would listen for audio input using Google Speech-To-Text API and convert the text to a JSON format.
- Sent and received messages from other systems of the Comfort Pet using RabbitMQ.

Application Development Design Studio
Role: Lead Developer

- Collaborated with team members to design and develop a Connect Four game in Java using the NetBeans IDE and Git.
- Used the Agile methodology, Scrum, to create Sprints that would produce a working product at the end of each Sprint.
- Incorporated design patterns taught in class such as Model-View-Controller (MVC).

Distributed-Object Computing
Role: Lead Developer

- Developed a program in Python that takes a JSON payload from an URL and logs the activity using MongoDB.
- Sends the JSON payload to 4 different components using the technologies RabbitMQ, Socket, Pyro4, and SFTP.
- Encrypts the JSON payload for each different component using SSL Transmission, Hashing, Compression, and AES.

PERSONAL PROJECTS

Tic-Tac-Toe - https://github.com/svwoodhouse/TicTacToeMVC

- Developed a Tic-Tac-Toe GUI in Java using Swing Framework in NetBeans IDE.
- Implemented Minimax Algorithm, which enables the computer to analyze all possible moves and choose the move that allows it to win or tie with the player.
- Utilized socket programming to create an online mode, which enables players on a different network to play against each other.
- Used MVC Design Patterns to separate the user interface from the application's model and controller.

Overwatch Statistics Web Scraper - https://github.com/svwoodhouse/OverwatchMetricsApplication

- Collaborated with a data analyst to create a Python web scraper application that pulls the statistics for players of the video game Overwatch from the Overwatch official webpage.
- Application parses, cleans, and organizes data gathered from the webpage and sends it to a csv file which is then consumed by the data analyst. The data was then used in PowerBI to create dashboards that analyze in-game statistics to see what each player's strengths and weaknesses were for a given category.
- Created a demo dashboard to compare the statistics for two players for a given category and displayed it in a chart using the Python libraries Pandas and Matplotlib.
- Developed in Python using the Visual Studio Code IDE and used Git/Github for source control.