Silas Setterstrom

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Education

University of Wisconsin – Madison   **Fall 2017 – May 2021**
Bachelor of Science in Computer Science and Political Science. GPA: 3.87/4.00

Professional Experience

TechStart Intern – *Liberty Mutual Insurance,* Seattle WA (remote)   **June 2020 – December 2020**
Developed a new application for email management to help underwriters delegate tasks to their assistants and enable analytics to track behavior for future improvements.
- Set up a local H2 database and deployed a MySQL database to AWS to store user emails.
- Created a Spring Boot API with Maven to read and write to the email database.
- Sketched a wireframe for the UI and created a skeleton for the front-end that the team used.
- Wrote backend and frontend unit tests with 100% coverage using JUnit and Cypress.

Data Integration Intern – *Colony Brands, Inc.*, Monroe WI   **May 2019 – August 2019**
Rewrote an existing mainframe application into Java and Python for deployment on AWS.
- Refactored the process of running a job using a DynamoDB Stream to eliminate API calls and provide instantaneous status updates.
- Used a multi-environment development workflow by testing releases in dev and promoting to production after a peer review process using version control.
- Redesigned front-end using Vuetify to utilize standardized UI components.

Data Integration Intern – *Colony Brands, Inc.*, Monroe WI   **May 2018 – August 2018**
Developed an application to provide definitions for all tables and columns in the company's database.
- Implemented search functionality and the application's front-end.
- Integrated SQL into the application for read/write operations on the MySQL database.

Personal Projects and Coursework

Simply Run - *Software Engineering Course*   **Spring 2020**
Developed a mobile application using React Native to track statistics for a user's run without ads or the complexity of other existing applications.

HeartsPlayer - *Personal project*   **Spring 2020**
Created a Python application to allow a user to play Hearts against the computer. Contains a complex decision tree to make gameplay challenging for new players and competitive for experienced players.

24 - *Personal project*   **Spring 2020**
Developed a command line tool using Python to determine whether a set of 4 numbers can be added, subtracted, multiplied, and divided to reach the number 24, and return a solution.

Skills

- **Programming languages**: Java, Python, JavaScript, and SQL; familiar with HTML/CSS and C/C++
- **Technologies/Frameworks**: many AWS services (DynamoDB, Redshift, ECS, Lambda, SAM, CloudFormation, API Gateway), React, Vue, Maven, Git, Vim, JUnit, Cypress
- Experienced in Agile software development