Thomas Tubbs

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PROFESSIONAL SUMMARY

Thomas Tubbs is a software developer that has worked in various teams to build web applications. He graduated summa cum laude from the University of Memphis with a bachelor's degree in computer science. The primary website building frameworks he has used are Java frameworks such as Spring Framework and Spring MVC, Hibernate, JDBC, and React; however, he has also worked with Ruby on Rails. Thomas has an interest and joy in building web apps that started from his first software engineering class.

TECHNICAL SKILLS

Programming: Java, JavaScript, Python, Ruby on Rails, HTML5, CSS3, SQL, Spring, Spring Boot, JDBC, Jackson, JPA, JQuery, Node, Webpack, Babel, Maven, NPM, React, Redux

Software: Eclipse, VS Code, IntelliJ, PyCharm, Jupyter Notebook, Git, GitHub, Cmder, pgAdmin

Databases: PostgreSQL

Operating Systems: Windows

PROFESSIONAL EXPERIENCE

COOK SYSTEMS – Memphis, TN   12/22 – 02/23
FastTrack Developer

Twitter Clone Back-end Assessment
- Implemented a RESTful Web Service with team members that focused on creating a Twitter-like back-end that allowed for users, tweets, and hashtags to be created while also allowing for likes, follows, and mentions
- Programmed the implementation of all CRUD operations related to the user
- Developed a database schema/ERD supported by PostgreSQL in PGAdmin that allowed for the implementation of a follower system that allows users to follow other users
- Utilized SpringBoot and JPA to ensure that the user data is safely being converted between the API and the database models
- Tested the user and follower implementation using Postman to ensure that each of them had the full functionality required to satisfy the project requirements

Environment: Java, SpringBoot, JPA, PostgreSQL, pgAdmin, Postman, Git, IntelliJ, Maven

Music Artist Guessing Game
- Created a React app guessing game with team members where users can listen to songs and guess which artist sang them
- Improved the visuals of the app by using CSS and Material UI

- Implemented the code to fetch and play the songs from the Spotify API
- Coded the fetch for the correct artist from which to get songs as well as the random incorrect artists that can be chosen from

Environment: React, JavaScript, CSS, Material UI, Git, npm, howler.js, VS Code

Full-Stack Company Management App
- Produced a full-stack application that has a RESTful Web Service on the back-end and a React Application on the front-end that allowed for user, announcement, team, and project data to be created, updated, and displayed
- Enabled the creation of users and projects, while working on the back-end team, by making endpoints that the front-end can connect to
- Worked on the front-end team of the project implementing the project page and various other features
- Tested the Web API utilizing Postman and then the front-end application utilizing data from the back-end

Environment: Java, SpringBoot, JPA, PostgreSQL, pgAdmin, Postman, IntelliJ, Maven, React, JavaScript, CSS, Material UI, VS Code, npm, Git

Web Development Team Project – Memphis, TN   **10/21 – 12/21**
Developer and Functionality Designer
- Established a plan that facilitated the completion of the Reddit-like social media app by determining the functionality and tasks needed before each sprint
- Improved functionality and safety for users by creating the front-end and back-end for the user profile using Ruby on Rails
- Encouraged user expression in their profiles by implementing the functionality for pictures to be saved and used

Environment: Ruby on Rails, CSS, Bootstrap, PostgreSQL, Git

Medtronic Sponsored Senior Project – Memphis, TN   **01/22 – 05/22**
Developer and Functionality Designer
- Facilitated the completion of the sponsor's requirements by creating a plan that used the requirements as a baseline for the functionality and implementation of the shopping-like app in Ruby on Rails
- Created the implementation for a user profile, as per the sponsor's requirement, that would act as verification for a user trying to order through Medtronic
- Designed an admin that would act as proxy for a Medtronic employee approving orders
- Improved user convenience by allowing the cart to be saved for later using cookies

Environment: Ruby on Rails, CSS, Bootstrap, PostgreSQL, Git

Bloons Tower Defense 6 AI Project
Developer
- Created an AI using Google Colab that can play the game by itself
- Made the skeleton for the AI using OpenAI Gym
- Found relevant memory addresses that contained data for the AI using Cheat Engine

Environment: Python, Google Colab, OpenAI Gym, PyMeow, Cheat Engine

EDUCATION

Cook Systems FastTrack Java Program – Memphis, TN   **12/22 – 02/23**
Concentrated Java Frameworks and developer tools training

University of Memphis – Memphis, TN   **08/18 – 05/22**
Bachelor of Science: Computer Science