Mahalaxmi Kalappareddigari

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Education

University of Illinois at Chicago   **August 2020 – May 2024**
Bachelor of Science in Computer Science | GPA: 3.80 / 4.00   *Chicago, IL*

Relevant Coursework: Data Structures, Software Design, Computer Algorithms I, Data Science, Artificial Intelligence I, Discrete Mathematics, Machine Learning, Software Engineering

Experience

Motorola Solutions   **May 2023 – August 2023**
Software Engineer Intern   *Chicago, IL*
- Implemented an Admin Configuration Backend to automate deployment, reducing company costs associated with manual processes
- Developed a standard backend model for configurations and products, enabling seamless data management with Azure App Config using C#
- Created and validated two RESTful ASP.NET MVC Web APIs for configuration data, utilizing Postman and Swagger for testing
- Conducted unit and integration testing of the backend model and API controllers using xUnit and Moq

Expedia Group   **May 2022 – July 2022**
Software Development Engineer Intern   *Denver, CO*
- Reimplemented a legacy business dashboard in the Escapia property management application, using a full-stack approach to modernize features
- Developed a React UI with tile components displaying business activities for property managers, utilizing TypeScript and React.js
- Created a backend Node service with GraphQL schema and resolvers for querying data, using JavaScript
- Conducted unit tests for frontend and backend functionalities with Jest, Mocha, and Chai

Optum   **June 2021 – August 2021**
Technology Development Intern   *Schaumburg, IL*
- Researched and developed sample exercises to understand GraphQL concepts and document advantages of RESTful APIs versus GraphQL
- Designed a method to parse and filter JSON prescription responses, flattening nested levels using TypeScript and Node.js
- Developed a mock GraphQL federated gateway on a backend service to query user-requested data using JavaScript and Node.js
- Studied NLP concepts, including topic modeling, text classification, and sentiment analysis, to design a mock system for suggesting alternative medications for long-term out-of-stock items

Projects

CTA Ridership Database Application | *Python, SQL, SQLite, Matplotlib*   **September 2022**
- Developed a console-based program to retrieve and display CTA ridership data
- Used SQLite and Matplotlib to query and visually represent CTA data based on user-selected commands
- Created UI command logic with Python to display queried and plotted data in an organized manner

Chatroom Improvement | *Maven, JavaFX, Java*   **April 2022**
- Improved a GUI chatroom program for thread safety and deadlock prevention using Java, JavaFX, and server-client socket connections
- Utilized thread pools, executor services, callbacks, and data structures to manage client connections and update chatrooms and server GUI
- Enhanced functionality to uniquely identify clients and redirect messages to specific clients, groups, or all clients

Exercise Break App | *JavaScript, React.js, Node.js, MySQL*   **January 2024 – April 2024**
- Developed an interactive exercise application that tracks workouts with customizable settings with multiple team members and updates users on their session statistics
- Unique feature: Utilizes Google Maps API to find nearby stores based on exceeding defined threshold for heart rate

Technical Skills

Programming Languages: C/C++, C#, Python, GraphQL, JavaScript, Java, TypeScript, SQL
Technologies/Frameworks: VS Code, Git, Node.js, React.js, RESTful API, ASP.NET MVC API, .NET framework