UMAIR IQBAL

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github.com/umair-Iqbal-debug

EDUCATION

Stony Brook University   Stony Brook, NY
Bachelor of Science in Computer Science   *Magnum Cum Laude, May 2024*
- GPA: 3.75

WORK EXPERIENCE

The Davey Tree Expert Co, Front-End Software Developer Intern   June 2022 – October 2023
The Davey Tree Expert   *Remote*
- Co-led the front-end development of app using SAPUI5 JavaScript framework, for streamlining business partner management and data integrity.
- Achieved a **5%** improvement in web application performance by optimizing oData read calls with concise select queries.
- Deployed web applications to SAP Fiori LaunchPad, effectively serving over **500 users** across the USA and Canada.
- Developed an API to facilitate efficient searching and sorting of business partner information, resulting in improved code readability, debugging, and maintenance.
- Collaborated with a senior software engineer, engaging in meetings and discussions to enhance user-interface and make informed trade-offs.
- Enhanced code quality by refactoring JavaScript promises to asynchronous/await and implementing ES6 features.
- Implemented internationalization (i18n) by integrating i18n files to accommodate global users.

PROJECTS

GeoMapper | React, Redux, Google Maps API, MongoDB, Express, SSO, Leaflet,MUI   Spring 2023
- Led a team of four developers to design, develop, and deploy a map data visualization web application capable of building heatmaps, choropleth maps, and symbol maps.
- Implemented social media-like features such as sharing, commenting, liking, and forking maps.
- Developed user authentication and authorization mechanisms to ensure secure access and data privacy.
- Optimized data transmission by using the Geobuf Node module to compress GeoJSON data, reducing file size by **5-6 times**, resulting in significantly improved data transfer efficiency and application performance.
- Switched the underlying symbol layer from DivIcon to Canvas for dot density maps, reducing lag and significantly enhancing rendering performance.

Playlister | React, Express, Node, MongoDB   Fall 2022
- Developed and deployed a music video streaming platform, with a responsive layout, using a tech stack that included MongoDB, Express, React, Node, and CSS3.
- Implemented robust security features including user accounts, authentication, and authorization using JWT and BCRYPT, ensuring data privacy and protection.
- Playlister allows users to listen to, create, upload, comment on, like, and dislike playlists of YouTube music videos.
- Integrated the YouTube I-frame API by creating a react wrapper class, resulting in a user-friendly interface for playlist navigation, video playback, pausing, and playing.
- Established continuous integration and continuous deployment (CI/CD) by linking the GitHub repository to automatically deploy changes, streamlining the development process.

Expense Tracker Android App | Java, Android Studio, CSS   Fall 2021
- Implemented a custom Android expense tracker app using Java tailored to the needs of elevator engineers at D&D Elevators.
- Independently designed, integrated user feedback, and optimized the app, resulting in streamlined expense tracking and automated expense report generation.
- Distributed the app to industry colleagues, reducing manual effort and promoting environmental sustainability.

TECHNICAL SKILLS

Technologies: Python, Java, JavaScript, React, C, HTML5, CSS3, SAPUI5, Express, MongoDB, MySQL, SQL
Courses: Natural Language Processing, Algorithms, Software Engineering, Object Oriented Programming, System Fundamentals, Linear Algebra