

UMAIR IQBAL

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EDUCATION

Stony Brook University

Bachelor of Science in Computer Science

- GPA: 3.75

Stony Brook, NY

Magna Cum Laude, May 2024

TECHNICAL SKILLS

Technologies: Python, Java, JavaScript, ReactJS, C, HTML5, CSS3, SAPUI5, Express, MongoDB, PostgreSQL, SQL

Courses: Natural Language Processing, Algorithms, Software Engineering, Object Oriented Programming, System Fundamentals, Linear Algebra

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.
- Improved app performance by **5%** by optimizing oData read calls.
- Deployed web applications to SAP Fiori LaunchPad, effectively serving over **500 users** across the USA and Canada.
- Developed API for efficient search/sort of partner info, enhancing code readability and maintainability
- 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.
- Integrated i18n for global user support.

PROJECTS

GeoMapper | React, Redux, Vite, Google Maps API, MongoDB, Express, Mongoose, Leaflet

Spring 2023

- Led a team of four developers to design, develop, and deploy a map data visualization full-stack web app capable of building heatmaps, choropleth maps, and symbol maps.
- Optimized data transmission by using the Geobuf Node module to compress GeoJSON data, reducing file size by **5-6 times**.
- Switched the underlying symbol layer from DivIcon to Canvas for dot density maps, reducing lag and enhancing rendering performance.
- 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.

Playlist | React, Express, Node, MongoDB

Fall 2022

- Developed and deployed a music video playlist making full-stack web app.
- Implemented robust security features including user accounts, authentication, and authorization using JWT and BCrypt, ensuring data privacy and protection.
- 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 CI/CD by linking the GitHub repository to automatically deploy changes, streamlining the development process.

Binary Logistic Classifier for Named Entity Recognition | Python, Numpy, Pandas

Spring 2024

- Developed a Binary Logistic Classifier in Python to recognize tokens classified as PER (person entities).
- Achieved an F1-score of **80%**, demonstrating the model's effectiveness in accurately identifying person entities in text.
- Conducted feature engineering, including the extraction of n-grams and part-of-speech tags, to improve the model's predictive accuracy.
- Evaluated the model using various metrics, including precision, recall, and accuracy, to ensure robust performance.