UMAIR IQBAL

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EDUCATION

Stony Brook University Stony Brook, NY

Bachelor of Science in Computer Science, Magna Cum Laude *May 2024*
- GPA: 3.75

TECHNICAL SKILLS

Technologies: Python, Java, JavaScript, TypeScript, Angular, ReactJS, Node.js, C, HTML5, CSS3, SAPUI5, Express, MongoDB, PostgreSQL, AWS Lambda, Serverless Framework, AWS RDS
Courses: Natural Language Processing, Algorithms, Software Engineering, Object Oriented Programming, System Fundamentals, Linear Algebra

WORK EXPERIENCE

Software Engineer (Full-stack) May 2024 – April 2025

Quadrantic IQ (Toyota Projects) | TypeScript, Angular, Python, Node.js, PostgreSQL, AWS Lambda, RDS
- Built and deployed **AWS Lambda microservices** using **API Gateway** and **Serverless Framework** for Toyota's prototype vehicle BOM system, driving a **99% boost in engineering productivity**.
- Refactored a flawed part hierarchy algorithm using **Python** and **graph traversal**, increasing accuracy from **70% to 100%** and resolving a **20,000-part data discrepancy**.
- Created a **Lambda-based export service** that performs **BOM comparisons** and generates **color-coded Excel reports**, enabling **retrofit analysis** and storing outputs in **AWS S3**.
- Partnered with **Toyota engineers and stakeholders** to gather technical requirements and iterate features aligned with R&D manufacturing workflows.

Front-End Software Engineer April 2025 – Present

Circularity | React, Redux, Chart.js, Chakra UI, D3.js, MongoDB
- Developing a dynamic KPI statistics dashboard for aluminum manufacturing plants to reduce cost while meeting alloy composition standards.
- Researched and prototyped multiple charting libraries (D3.js, Chart.js), ultimately selecting and implementing Chart.js for time-series visualizations.
- Built modular, reusable components (`TimeSeriesCard`, `TimeSeriesChart`) aligned with Figma mockups and design standards.
- Integrated Redux for global state management to support flexible data updates and user interaction patterns.
- Collaborated with back-end developers to connect RESTful endpoints, enabling real-time KPI data retrieval and rendering.

Front-End Software Developer June 2022 – April 2024

The Davey Tree Expert | SAPUI5, JavaScript, oData, SAP Fiori LaunchPad, ES6
- Lead the front-end development of an app using SAPUI5 JavaScript framework, streamlining business partner management and improving data integrity.
- Improved app performance by **5%** by optimizing oData read calls, impacting over **500 users** across the USA and Canada.
- Developed API for efficient search/sort of partner info, enhancing code readability and maintainability.

PROJECTS

GeoMapper | React, Redux, Vite, Google Maps API, MongoDB, Express, 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.

Algorithm Visualizer | React, Vite Fall 2022
- Built an interactive graph search visualizer for BFS and DFS algorithms with live demo in React.

Binary Logistic Classifier for Named Entity Recognition | Python, Numpy, Pandas, Machine Learning Spring 2024
- Developed a Binary Logistic Classifier in Python to recognize tokens classified as PER (person entities), achieving an F1-score of **80%**.