Simon Bui

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PROFESSIONAL EXPERIENCE

Analyst (Software Engineering & Support)   **Oct 2021 – Present**
Transaction Data Systems   *Irvine, CA (Remote)*
- Improved the maintainability of a React product by replacing hard coded data with GraphQL queries, proactively reducing the amount of client-reported UI bugs when Medicare routinely updates their medical codes
- Developed and maintained a .NET(C#) MVC responsible for ingesting, processing, and transmitting data to over 50 state government agencies
- Debugged and implemented a fix for a production issue affecting over 10% of new user profiles per day
- Implemented a database enhancement to improve the accuracy of data ingestion and API transmission affecting a national retail chain of ~600 stores
- Automated data verification processes with Python, ensuring data integrity and reducing database errors
- Rewrote SQL stored procedures to enhance existing data pipelines and loading processes

Software Engineer (Practicum)   **May 2022 – Aug 2022**
Commnet Wireless LLC   *Castle Rock, CO (Remote)*
- Created a full stack application that visualizes anomalous cellular networking data, improving the company's ability to identify problematic cell towers before sending out repair technicians
- Implemented machine learning algorithms that analyzed and flagged incoming network traffic
- Provided well-documented and unit tested code for the client to modify for future infrastructural changes

PROJECTS

Personal Portfolio Website (React, JavaScript, HTML, CSS) - [Portfolio](#)
- Developed a static webpage using React and deployed the project via Netlify
- Designed a webpage with an intuitive navigation and modernized layout

Meeting Schedule Tracker (TypeScript, Node.js, Express, MongoDB, React)
- Built an application that allows users to schedule, reschedule, cancel, and view other users' meeting times
- Designed a backend REST API to store and handle user meeting data in a NoSQL database
- Used Axios to transfer JSON data between client and server to populate the calendar and agenda UI

Online Game Damage Calculator (JavaScript, React) - [Live Site](#)
- Developed a web application to compute the efficiency given a user's selected item combination, allowing players to make better informed purchasing decisions (potentially saving a player hundreds to thousands of dollars)
- Managed React states to provide dynamic results upon viewer interaction with the UI

Interactive Pricing Tool for New York Hospitalization Costs (Python, GCP, d3.js)
- Extracted, transformed, and loaded a 2.34m row patient records data set to train machine learning models
- Deployed a web app that renders an adjusting color map of New York counties with estimated expenses per hospital given user inputs; prospective patients can make selections on medical conditions, age, gender, etc.

SKILLS

Programming Languages: C#, JavaScript, TypeScript, Python, SQL, HTML, CSS
Frameworks & Libraries: .NET, React, Node.js, Express, Flask
Other: Git, Jira, Confluence, Salesforce, APIs, Postman, Bitbucket, Oracle, SQL Server, PostgreSQL

EDUCATION

Georgia Institute of Technology, College of Engineering   **Aug 2020 – May 2023**
MS Analytics

University of California, Irvine   **Sept 2012 – June 2017**
BS Pharmaceutical Sciences