

Simon Bui

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PROFESSIONAL EXPERIENCE

Software Engineer

Feb 2023 – Present

Transaction Data Systems – Irvine, CA (Remote)

- Maintained and developed a .NET(C#) product responsible for ingesting, processing, and transmitting vaccination data to over 50 state government agencies
- Debugged and implemented a fix for a production issue affecting over 10% new user accounts per day
- Improved the maintainability of frontend React code by replacing hard coded data with GraphQL queries

Software Support Engineer

Oct 2021 – Feb 2023

Transaction Data Systems – Irvine, CA (Remote)

- Automated data verification processes, ensuring data integrity and compatibility with database procedures
- Utilized SQL and Python to identify data related issues that resulted in bugs on clients' UI or services
- Rewrote SQL stored procedures to enhance existing data pipelines and loading processes
- Validated API response and requests to ensure functionality of frontend services
- Acted as a technical liaison between client support, project managers, software engineers, and data engineers

Software Engineer (Practicum)

May 2022 – Aug 2022

Commnet Wireless LLC – Castle Rock, CO (Remote)

- Created a UI with Python and Flask that processes HTTP requests to pull and analyze cellular networking data
- Aggregated data based on user selections to dynamically render graphs and automate machine learning models that flag anomalous data as a signal for intervention
- Provided well-documented and unit tested code for the client to modify for future infrastructural changes

PROJECTS

Personal Portfolio Website (React, JavaScript, HTML, CSS) - simonbui.com

- Developed a static webpage using React and deployed the project via Netlify
- Designed a web page 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) - trixion-calculator.com

- 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

MS Analytics, Aug 2020 - May 2023

University of California, Irvine

BS Pharmaceutical Sciences, Sept 2012 - June 2017