Simon Bui
stbui.ca@gmail.com | Anaheim, CA | 714-823-0072 | [Portfolio](#) | [LinkedIn](#)

PROFESSIONAL EXPERIENCE

Software Engineer   **Oct 2021 – May 2024**
Outcomes
- Developed and maintained backend services (C#, .NET, MS SQL Server) responsible for ingesting, processing, and transmitting 15M annual vaccination records to over 50 state government agencies
- Led a multi-team initiative to resolve a database bug, preventing cancellation by a F100 client
- Built a billing microservice (JavaScript, React, GraphQL) with integrations to two core cloud applications
- Collaborated with various teams in an Agile environment to deliver on multiple, concurrent projects
- Created a Python UI that provides custom SQL querying and visualization of database diagnostics, improving the efficiency of database monitoring by internal teams
- Reduced database ingestion errors by 70% by automating data verification procedures
- Redesigned a microservice's architecture as a part of a company-wide system migration and rewrite

Software Engineer (Practicum)   **May 2022 – Aug 2022**
Commnet Wireless LLC
- Designed a Python PoC 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, unit tested code for the client to modify for future infrastructural changes

PROJECTS

Simply Shop Website (C#, .NET, Docker, React, JavaScript, Python, PostgreSQL, HTML, CSS)
- Utilized clean architecture to design a website providing local grocery price analytics
- Implemented an optical character recognition microservice that extracts price values from a user's receipt image

PTO Tracking Web Portal (TypeScript, React, SQL, Node.js, Express, Docker)
- Built a web application that allows users to view employee time off schedules on a calendar UI
- Implemented a backend login authentication system using JSON web tokens and HTTP only cookies
- Containerized a PostgreSQL database to improve ease of setup and maintenance

Household Appliances Dashboard (Python, PostgreSQL)
- Created the frontend dashboards, tables, and their corresponding SQL queries for various household statistics
- Wrote object-oriented code including concepts such as inheritance and method overriding
- Designed the database schemas, constraints, and relationship modeling

Hospital Pricing Tool (JavaScript, Python, GCP Cloud)
- Trained machine learning algorithms using GCP Cloud Compute to predict hospitalization prices in NYC
- Integrated various algorithms with a UI to allow users to find out their expected costs before going to the hospital

SKILLS

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

EDUCATION

Georgia Institute of Technology
MS Analytics

University of California, Irvine
BS Pharmaceutical Sciences