Simon Bui

stbui.ca@gmail.com | 714-823-0072 | [Portfolio](#) | [LinkedIn](#)

PROFESSIONAL EXPERIENCE

Analyst (Software Engineer)   **Oct 2021 – Present**
Transaction Data Systems   *Irvine, CA*

- Optimized a product by replacing hard-coded variables with API calls, resulting in fewer UI bugs reported by clients after external data updates
- Developed and maintained a .NET (C#) MVC project responsible for ingesting, processing, and transmitting data to over 50 state government agencies
- Implemented a database enhancement to improve the accuracy of data processing and API transmission affecting a national retail chain of ~600 stores, which eliminated the risk of cancellation by a major customer
- Automated data verification processes using Python and reduced Oracle database ingestion errors by 70%
- Created a web interface that visualizes database diagnostics and provides user alerts during errors

Software Engineer (Practicum)   **May 2022 – Aug 2022**
Commnet Wireless LLC   *Castle Rock, CO*

- Used Flask (Python) to create 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

PTO Tracking Web Portal (TypeScript, React, PostgreSQL, C#, Docker)

- Built a web application that allows users to view employee time off schedules on a calendar UI; users can filter by employee name or by department
- Implemented a login authentication system using JSON web tokens and HTTP only cookies
- Dockerized a PostgreSQL database to improve ease of setup and maintenance

Personal Portfolio Website (React, JavaScript, HTML, CSS) | [Live Site](#)

- Developed a static webpage using React and deployed the project via Netlify
- Designed a webpage with an intuitive navigation and modernized layout

Household Appliances Dashboard (Python, PostgreSQL) | [Video Demo](#)

- 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

Online Game Damage Calculator (JavaScript, React) | [Live Site](#) | [Video Demo](#)

- 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

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