

## Simon Bui

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### PROFESSIONAL EXPERIENCE

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#### Software Engineer

Mar 2023 – Present

##### *Outcomes*

- Developed and maintained a backend service (.NET, C#, Microsoft SQL Server) responsible for ingesting, processing, and transmitting 15M annual records to over 50 state government agencies
- Prevented cancellation by a F100 client by resolving a bug that went unresolved for nearly a year
- Built a full stack billing microservice (JavaScript, React, C#) with integrations to two core cloud applications
- Wore multiple hats in backend, frontend, QA, product, and operations support for a web service

#### Data Operations Analyst

Oct 2021 – Mar 2023

##### *Outcomes*

- 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 writing scripts to automate data verification procedures
- Oversaw processes that transferred data from over 10 external vendors

#### 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

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#### PTO Tracking Web Portal (TypeScript, React, SQL, Django, 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

#### 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)

- 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

### SKILLS

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**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

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**Georgia Institute of Technology, College of Engineering**

*MS Analytics*

**University of California, Irvine**

*BS Pharmaceutical Sciences*