BENNETT GUNSON Full Stack Developer

 Calgary, Alberta   403 816 0425   bengunson@gmail.com   bengunson.me   bgunson

⚙ SKILLS

JavaScript TypeScript NodeJS HTML CSS Docker Python Java Git C# .NET
ASP.NET Blazor WPF C++ C CMake Haskell Angular React NextJS Gatsby
RxJS GraphQL ExpressJS Bootstrap Material UI Protobuf WebSocket Modbus
MQTT Firebase MongoDB SQLite PostgreSQL InfluxDB

💼 WORK EXPERIENCE

Spring Valley Solutions ⧉
Software Developer – Part-time   Jan 2022 – Present
- Maintained proprietary web applications including bug fixes, ngrok remote access and time series exports to InfluxDB, and building/distributing installers to customers.

Software Developer – Full-time Internship   May 2021 – Jan 2022
- Migrated (rewrote) two data visualization web clients from AngularJS to Angular (v14) utilizing RxJS for reactive realtime UI changes.
- Implemented many NodeJS backend upgrades and features to both data aquisition applications including user authentication, IoT exports (MQTT, Modbus, raw TCP), and Jasmine testing.
- Created a build pipeline to efficiently ship installers and containerized applications using Docker for cross platform usage.
- Developed a backup/restore utility (NodeJS CLI and WPF GUI) to allow a user to quickly read and write data blocks to any PLC on their LAN via excel, JSON, or TXT files.
- Styled, managed, and deployed company website using NextJS and Firebase hosting.

🖐 VOLUNTEER EXPERIENCE

Bike Root Community Bike Shop ⧉
Bike Mechanic   Sept 2022 – Present
- Refurbishing donated bicycles for resale and repairing customer's bicycles.
- Opening and closing the shop as well as handling POS system for transactions.

🎓 EDUCATION

University of Calgary
Bachelor of Science, Computer Science   Sept 2018 – April 2023
- Favourite courses: Data Base Management Systems, Computer Networks, Network Systems Security, Foundations of Functional Programming, Computing Machinery, Web-Based Systems

📄 PROJECTS

OnBoardPi ⧉   Node, Angular, PostgreSQL, Docker, Python, Raspberry Pi
- Diagnostic web server and client for OBD2 compliant vehicles
- View fault codes, clear check engine light, and watch realtime values including RPM, speed, and temperatures on a dashboard.

StuddyBuddy ⧉   MongoDB, Express, React, NodeJS
- Hack the Change 2022 (YYC) Admin Team's Choice winner
- A web application to connect users globally to tutor each other free of charge via open rooms with a whiteboard and text chat.