BEN LALOR

FULL STACK DEVELOPER

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Professional Summary

Full-stack developer with a decade of experience utilizing and developing software applications in the energy industry. Successfully led a cross-functional team in developing a full-stack web application that is the most widely used tool in the state of California for prescriptive Energy Code compliance. Passionate about automation and creating clean, intuitive interfaces. Seeking a challenging role to leverage my expertise in developing sustainable software solutions.

Experience

PROJECTS

- **Stock Data Visualizer:** Responsive web application enabling users to dynamically query stock tickers and visualize financial data through custom graphs. Deployed via GitHub Pages.
  Source Code
  - **React**   **Alpha Vantage API**   **Bootstrap**   **Recharts**   **CSS**

- **Portfolio:** Responsive web application that displays my personal projects, experience, and information relevant to my professional development. Deployed via GitHub Pages with custom domain.
  Source Code
  - **React**   **React Router DOM**   **React Reveal**   **CSS**

- **Energy Code Compliance Software:** Full stack web application enabling users to register, login, create, save, and revise multiple energy code forms. The application includes features to assess compliance with energy code requirements. Deployed via Azure – no longer hosted publicly.
  Source Code
  - **Flask**   **JavaScript**   **Python**   **MySQL**   **SQLAlchemy**   **Bootstrap**   **Azure MySQL Flexible Server**   **Azure App Service**   **HTML**   **CSS**

- **Calculator:** Responsive web application enabling users to calculate basic arithmetic. Deployed via GitHub Pages.
  Source Code
  - **React**   **CSS**

NORESCO
Senior Energy Analyst | 2024 – present

- Lead team of developers to build a full stack web application for demonstrating compliance with Title 24, Part 6 prescriptive requirements.
- Develop SQL database that collects data from both public and private compliance software tools in the state of California to help empower decision makers such as CASE teams, CEC, CPUC with actionable insights.
- Develop and maintain XSD rule set used as central infrastructure for all private and public compliance software tools in the state of California.
- Develop a secure API for efficient transmission of large-scale building data

- Cultivate relationships with industry stakeholders such as CEC, local government, IOUs, and CPUC codes and standards program participants, positioning the organization as a skilled and trusted consultant.
- Leverage in-depth understanding of Title 24, Part 6 & 11 standards and building engineering to develop and deliver tailored solutions for clients.
- Work with local governments in California to adopt and implement Reach Codes.
- Serve as a subject matter expert for Codes and Standards Enhancement (CASE) teams for the 2022, 2025 and 2028 code cycles leading to the adoption of several new regulations for Title 24, Part 6.

Energy Analyst III | 2021 - 2024
Energy Analyst II | 2019 - 2021

ENERGYSOFT
Senior Nonresidential Energy Analyst | 2017- 2019
- Analyze building design and develop and execute building energy model for cutting edge projects such as Apple Park, Apple Computer Inc's headquarters in in Palo Alto.
- Develop Life Cycle Cost Analysis for nonresidential building design options using EnergyPro – most widely used Title 24 energy modeling software in California.
- Manage team of energy consultants and delegate tasks

Energy Analyst | 2015 – 2017
Energy Analyst Intern | 2014 – 2015

Education

COLORADO STATE UNIVERSITY
 BS in Computer Science
Software development, database management, software engineering, computer architecture

SONOMA STATE UNIVERSITY
BS in Energy Management and Design
Thermal Energy Management, Renewable Energy Systems, Electrical Energy Management

Industry Engagement

- Published paper and led presentation at 2024 ACEEE Summer Study on Energy Efficiency in Buildings - 21st Century Compliance: Data-Driven Solutions for Decarbonization and Equity
- Successfully led technical presentation for California Commissioner McCallister & his senior technical staff on database that was developed by NORESCO's Codes and Standards team.
- Successfully led technical presentation at 2022 and 2024 CABEC conference.

Leadership

Mentor junior staff members, manage workload and contract budget, develop statement of work and present to clients to successfully win 7 figure contracts

Skills

FRONT END:
- HTML
- CSS
- JavaScript
- React
- Bootstrap

BACK END:
- Python
- Flask
- Django
- MySQL
- SQLAlchemy

DEV OPS:
- Azure
- GitHub
- Git
- NPM