

GARRET BLOCHER

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EXPERIENCE

UI Engineer | Qcells (*acquired Geli*) | San Francisco, CA

2021 - Present

Utility Scale Energy Storage Monitoring Platform:

- Led the design and development of a scalable platform to monitor utility-scale energy storage systems.
- Spearheaded initial design using Figma, collaborating with cross-functional teams and external partners.
- Key frontend engineer through platform's production release and responsible for all future development.

Developed Express.js Microservice:

- Engineered an Express.js microservice incorporating Puppeteer and EJS to handle all report generation.
- Enabled user-defined scheduling for fetching, processing, and converting data into HTML documents, generating PDFs, and distributing them via AWS services (S3, SES).
- Managed the complete lifecycle: database architecture, SQL scripting, stakeholder engagement, and Kubernetes-based deployment.

AngularJS to Angular Migration:

- Built new micro-frontend in Angular, translating legacy code while developing new features.
- Enhanced application performance and user experience in alignment with modern web standards.

Energy Analytics Engineer | Geli | San Francisco, CA

2019 - 2021

Python Tool for Standardized Deliverables:

- Developed a Python-based tool to standardize customer deliverables, moving from ad-hoc Excel processes to a structured, production-ready software solution.
- Identified internal needs for development tools, which led to transitioning into a frontend engineering role after Qcells acquisition.

Australia Virtual Power Plant Market Analysis:

- Led the analysis for entering the Australia Virtual Power Plant market, creating Python tools for batch simulations and visualizing results.
- Utilized Dash by Plotly and later Streamlit for rapid deployment of data analysis tools, supporting business development and market expansion.

Sales Engineer | Photon Brothers | San Luis Obispo, CA

2017 - 2019

- Acted as Product Manager and Lead Engineer for development of company-wide sales tool, gathering feedback from the sales and operations teams to iterate on platform features.
- Enabled real-time system comparisons and customization, significantly improving customer engagement and sales efficiency while allowing operations to be more precise and streamlined.

LEADERSHIP

- Actively contributed to a smooth acquisition of Geli by Qcells, demonstrating adaptability and leadership in changing business environments.
- Championed 'Snack and Learn' sessions, training other employees on new market research and developments.

EDUCATION

California Polytechnic State University, San Luis Obispo

June 2015

Bachelor of Science in Bioresource and Agricultural Engineering, Minor in Water Science

Senior Project Developed an Excel VBA application to replace a DOS-based fluid dynamics calculation tool, now widely used across the irrigation industry.

SKILLS

- Angular/React/Typescript/Javascript
- NodeJS/Express
- CSS/SCSS/Tailwind
- Python (Pandas, Matplotlib, NumPy, etc.)
- Data Analysis/Visualization
- SQL/Postgres
- Docker/Kubernetes
- CI/CD