

Jumana Abdullah

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SUMMARY

Computer Science senior with experience in data analytics, utility data analysis, clean technology, and energy efficiency research. Interested in applying analytical and technical problem-solving skills to building energy performance, energy efficiency, and smart infrastructure.

EDUCATION

California State University, Sacramento — Bachelor of Science, Computer Science | Expected December 2026

TECHNICAL SKILLS

- **Data Analysis:** SQL (Advanced), Microsoft Excel, data cleaning, trend analysis, data visualization
- **Programming:** Python, C, Java, SQL
- **Energy & Sustainability:** Utility data analysis, energy-efficiency research, electrification research, energy-savings analysis
- **Tools:** Microsoft Excel, Office 365, database and web applications
- **Certifications:** Google Data Analytics, Google AI
- **Languages:** English, Arabic

RELEVANT EXPERIENCE

Product Developer — UtilityIQ | SMUD Clean Tech AI Startup Accelerator | HUMANBULB June 2026 – Present

- Developed UtilityIQ, a multifamily building energy and utility analysis platform designed to identify energy-efficiency opportunities and support electrification and utility-cost reduction.
- Built workflows to extract and analyze 12 months of utility-bill data, identify consumption patterns, and translate findings into actionable energy-efficiency recommendations and financial-impact reporting.
- Developed analytical features for evaluating potential energy savings, incentives, implementation costs, and return on investment for recommended efficiency measures.
- Designed customer-facing dashboards and reports that translate utility and energy data into clear recommendations for property owners and residents.

Green Careers Launchpad Intern | HUMANBULB

June 2026 – Present

- Researched energy-efficiency, electrification, renewable-energy, and emerging technology solutions to support clean-tech initiatives in the Sacramento region.
- Evaluated technologies and implementation opportunities against local utility and sustainability priorities and developed recommendations for potential adoption.
- Analyzed industry trends and technical solutions and presented findings to stakeholders, translating technical research into actionable recommendations.
- Collaborated across technical and program teams on clean-technology projects involving research, project planning, stakeholder engagement, and implementation considerations.

Program Technician Intern | California Department of Public Health

June 2024 – June 2025

- Analyzed large operational datasets using SQL and Excel to identify trends, data-quality issues, and process inefficiencies, supporting engineering and software improvement efforts.
- Partnered with senior engineers to validate and troubleshoot technical systems, identify software defects, and recommend corrective actions.
- Developed technical reports communicating analytical findings and recommendations to support engineering and program decisions.

PROJECTS

FAIR (Financial Accountability & Interest Review)

- Built a full-stack compliance platform for the California Fair Political Practices Commission (FPPC) that flags potential overlaps between officials' Form 700 disclosures and city council agenda items, surfacing conflicts of interest before votes occur.
- Delivered an early-warning view of conflicts of interest for analysts and the public, replacing manual cross-referencing, while automated weekly digests and nightly data refreshes kept reviews current with minimal admin effort.

HUMANBULB Impact Portal

- Built HUMANBULB's AI-powered Impact Portal by structuring program data collection, creating a reusable evaluation toolkit, and developing a workflow that transforms raw surveys, trackers, and narrative inputs into dashboards, analytics, and PDF-ready grant proposals.

LEADERSHIP & INVOLVEMENT

- MESA (Mathematics, Engineering, Science Achievement) — Spring 2024–Present
- SWE (Society of Women Engineers) — Spring 2024–Present
- Hornet Leadership Program (HLP) — Fall 2025