

Karter Barnes

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SUMMARY

Driven data science student eager to contribute analytical skills in the energy industry. Experienced in collaborative environments, combining strong problem-solving capabilities with precise data-driven approaches. Practical expertise gained through various projects focused on electric operations and customer insights. Proficient in tools like Python, SQL, and data visualization platforms. Excited to join Bright Future Energy Solutions and support impactful organizations with innovative solutions based on real data analysis. Committed to honing further understanding in both data science and the electric operations sector.

EDUCATION

Bachelor of Science in Computer Science

2026

University of California, Los Angeles GPA: 3.8

Los Angeles, CA

Coursework: Data Structures, Machine Learning, Database Systems, Software Engineering

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, R
- **Data Visualization Tools:** Tableau, Matplotlib, Seaborn
- **Database Technologies:** MySQL, PostgreSQL, SQLite
- **Data Analysis Frameworks:** Pandas, NumPy, Scikit-learn
- **Project Management Tools:** Trello, JIRA, Asana
- **Reporting Tools:** Tableau, Power BI, Google Data Studio
- **Development Methodologies:** Agile, Scrum, Waterfall
- **Operational Assessment Methods:** Benchmarking, Process Mapping, SWOT Analysis
- **Cloud Computing Platforms:** AWS, Azure, Google Cloud Platform
- **Statistical Software:** SPSS, SAS, JMP

SKILLS

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|-----------------|----------------------|------------------------|-----------------------|
| • Data Analysis | • Data Visualization | • Research Techniques | • Data Cleaning |
| • Python | • Communication | • Statistical Analysis | • Dashboard Creation |
| • SQL | • Team Collaboration | • Project Management | • Data Interpretation |
| • R | • Problem Solving | • Machine Learning | • Trend Analysis |

EXPERIENCE

Data Science Intern

January 2026 - Present

University Project

Los Angeles, CA

Contributed to critical projects focusing on data analysis for electric operations as part of a university initiative. Gained hands-on experience utilizing analytical tools while collaborating effectively with peers and mentors.

- Conducted comprehensive data analysis to identify trends impacting electric operations for a capstone project.
- Collaborated with peers to develop data-driven strategies that improved project outcomes and operational efficiencies.
- Utilized Python and SQL to extract, transform, and analyze datasets, resulting in actionable insights.
- Presented findings in clear and concise reports to academic stakeholders, enhancing communication skills.
- Assisted in data management tasks, ensuring accuracy through rigorous data cleaning and validation processes.
- Engaged in research regarding industry best practices, integrating findings into project deliverables.

Research Assistant

September 2025 - December 2025

Academic Research

Los Angeles, CA

Supported a research team analyzing electric consumption patterns for an academic initiative, leveraging analytical tools to enhance project quality and clarity.

- Analyzed large datasets to evaluate electric consumption patterns, improving understanding of consumer behavior.
- Employed analytical tools such as R and Excel for data visualization, leading to better research presentations.
- Collaborated with faculty to document research methodologies, enhancing academic rigor and transparency.

- Assisted in developing research papers to contribute valuable insights into energy data science.
- Participated in group discussions to brainstorm innovative solutions for data-related challenges.
- Recognized for attention to detail and ability to synthesize complex data into understandable formats.

Team Member

April 2025

Hackathon Project

Los Angeles, CA

Participated in a competitive hackathon aimed at addressing electric consumption issues through innovation, demonstrating teamwork and creative problem-solving under pressure.

- Developed an application prototype for energy consumption tracking using real-time data analytics.
- Conducted user testing to gather feedback, iterating on design elements for enhanced user experience.
- Leveraged Tableau for data visualization, showcasing potential impact to stakeholders effectively.
- Documented project development stages and presented results to judges, earning recognition for innovation.
- Collaborated within a fast-paced environment, honing skills in project management and teamwork.
- Cultivated resilience and adaptability during challenging time constraints in a competitive setting.

LEADERSHIP & AWARDS

- Dean's List, University of California, Los Angeles, 2025
- Hackathon Winner, Energy Innovation Hackathon, 2025

CERTIFICATIONS

- Data Science Fundamentals 📅 2026
- Python for Everybody 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Data Science Society, 2025 – Present
- Volunteer, Computer Science Club, 2025 – Present

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST