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KATE SPITZER

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DATA SCIENCE PORTFOLIO | <https://kmspitzer.github.io>

SUMMARY

Software and Data Engineer with a certificate in Data Science and Visualization from UCSD, a Bachelor of Science in Computer Science and more than 20 years of software engineering experience. Skilled in Python, SQL, Web Front End, JavaScript and various visualization interfaces. Strengths include creative problem-solving, recognizing and bridging gaps in understanding, and producing a high-quality product. Pursuing a career transforming data into creative, actionable insights for organizations with big ideas.

TECHNICAL SKILLS

Tools: Python, Javascript, Pandas, Matplotlib, SQLAlchemy, Web Front End, D3, Plotly, Flask, Leaflet, JSON, Splinter, Requests, Beautiful Soup, ETL, Machine Learning, Tableau, Domo, Kintone, ElasticSearch

Databases: PostgreSQL, MySQL, MongoDB

EXPERIENCE

CO-FOUNDER and VICE PRESIDENT of ENGINEERING

Metropolis IQ Technology, Inc.

Dec 2023 - Present

San Diego, CA

Key Accomplishments:

- Co-founded a startup dedicated to leveraging generative AI for supporting local government operations.
- Implementing the strategic use of AI technologies to improve efficiency and decision-making processes within local governments.

DATA ENGINEER/DATA ANALYST, Remote

The Atlas, part of the GovExec portfolio

Aug 2021 – Apr 2024

San Diego, CA

Key Accomplishments:

- Spearheaded the development of the MarketEdge product, driving the project from concept to MVP by architecting robust ETL pipelines and engaging data visualizations using Domo, enhancing business decision-making capabilities.
- Led the integration of RFP data into MarketEdge, including the creation of a user-friendly interface that empowered the research team to seamlessly input RFP data, significantly streamlining data entry processes.
- Designed and implemented a comprehensive ETL pipeline to facilitate data flow between the legacy RFP system and the product database, ensuring data integrity and availability.
- Developed a new UI using Kintone, improving user experience and interaction with the product, and played a pivotal role in its integration with the backend database, demonstrating a blend of technical expertise and user-centric design.

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SENIOR SOFTWARE ENGINEER, Remote
AT&T Network Services Division/IBM

Somerset, NJ

Key Accomplishments:

- Responsible for end-to-end design and implementation of Network Number Manager software application to control allocation of critical network number assignment, preventing unauthorized upstream access by numerous legacy systems. Managed team of 5 to complete design, documentation, development, testing and deployment on-time, without defects, and with highest quality.
- Subject Matter Expert in the negotiation and authoring of Interface Agreements between internal organizations, creating connections between new and legacy applications, ensuring data integrity while bridging gaps and maintaining communication channels for critical data sharing.
- Responsible for complex and critical backend functionality in support of release after release of the Software Defined Network, allowing customers to build custom VPNs, consistently delivering the highest quality product, defect-free, ahead of schedule.

PRESIDENT, NON-PROFIT
Troy Support Organization

Fullerton, CA

Key Accomplishments:

- Led a group of 8 volunteer board members to institute an internal grant program to allow teachers to request funds for creative projects as well as classroom necessities. Reworked bookkeeping system to better track funds and release monies tied up in defunct accounts. Acted as liaison between school and donors. Spearheaded the production of a video email outreach campaign. Organized events with students and their mentors, culminating in a student-led technology fair.

EDUCATION

Master of Science, Data Science: New Jersey Institute of Technology, Newark NJ
Expected Graduation 2025

Data Science and Visualization Certificate: University of California, San Diego
A 24-week intensive program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning

Bachelor of Science, Computer and Information Science: New Jersey Institute of Technology, Newark, NJ