BRANDON SAMS

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SUMMARY

Data and software professional with 7+ years of experience in data architecture, engineering, operations, and analytics. Skilled in designing scalable data solutions, optimizing data pipelines, and implementing data governance best practices.

CAREER EXPERIENCE

ECS Federal (Department of Veterans Affairs, VEO): May 2023 - Present

Senior Data Analyst (Multi-Channel Technology)   **May 2023 - Present**

- Acquired technical domain knowledge and system expertise to construct enterprise data lineage as an effort to facilitate effective data governance for any and all demographic data.
- Accelerated turn-around times (from weeks to minutes) and increased data autonomy by designing, implementing, and maintaining self-service contact information dashboard. This solution was used to quickly fulfill high-priority, large volume data requests in the event of natural disasters for VEO Comms Team. Required integration between SQL Server and Power BI.

Power App Developer (Enterprise Measurement and Design)   **April 2024 - September 2024**

- Developed a full-stack Power App solution for VEO/EMD Intake Portal, Skills Inventory, and Capacity Management System, which unified workstream across all divisions in EMD.
- Worked on an agile team to ensure high output velocity that is consistent with stakeholder needs.

Traffic Technology Services: 2018 - 2023

Data Scientist (Supervisor / Scrum Master)   **September 2020 - July 2023**

- Developed enterprise web applications using C#, ASP.NET, Visual Studio, IIS, and MySQL.
- Designed, implemented, and documented an automated data pipeline for AI model generation.
- Developed automated system for monitoring prediction quality against user experience.
- Led Agile/Scrum processes for R&D team, including standup, sprint planning, and retrospectives.
- Promoted a culture of transparency, trust, and continuous improvement with communication and leadership skills.

DevOps Engineer   **August 2018 - September 2020**

- Provided API support for partners and clients using our predictions in their CV2X/Autonomous Vehicles use cases.
- Worked with partner agencies to establish traffic signal connectivity for internal data pipeline.
- Managed production rollout of new internal software releases, including installation and bug reporting.
- MySQL database administration, including backups, load distribution, and cloud application configuration.

PATENTS

DERIVING TRAFFIC SIGNAL TIMING PLANS FROM CONNECTED VEHICLE TRAJECTORY DATA

- Developed software that would aggregate historic GPS vehicle data and build models of traffic signal behavior.
- US Patent No. US-20230013604-A1, Publication Date: 2023-01-19

SKILLS

- Object Oriented and Functional Programming: Python, C#
- Well versed with SQL and Python for data engineering, including with libraries and frameworks such as Pandas, Spark, Numpy, and Matplotlib in Azure Databricks environment.
- Scripting: Windows Powershell, Bash, Jupyter Notebooks

EDUCATION

Master of Science in Data Science, Bellevue University (3.80 GPA)   **2019 – 2021**

Bachelor of Science in Mathematics with Minor in Communication, Boise State University (3.59 GPA)   **2013 – 2017**

- 2-Time National Champion for Competitive Speech and Debate