

BRANDON SAMS

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Data Analyst with experience modeling large scale infrastructure, and working on a research and development team.

EDUCATION

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| Master of Science in Data Science, Bellevue University | 2019 – 2021 |
| <ul style="list-style-type: none"> • 3.800 GPA | |
| Bachelor of Science in Mathematics with Minor in Communication, Boise State University | 2013 – 2017 |
| <ul style="list-style-type: none"> • 2-Time National Champion for Competitive Speech and Debate • 3.59 GPA • Honors College Graduate | |
| Valedictorian, Mountain Home Senior High School | 2009 – 2013 |

CAREER EXPERIENCE

ECS: 2023 - Present

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| VA Profile Data Analyst | May 2023 - Present |
| <ul style="list-style-type: none"> • Fulfilled high-priority, high volume ad-hoc data requests for VEO Comms Team • Enabled accelerated turn-around times by designing, implementing, and maintaining self-service dashboard solutions • Investigated and tracked data quality issues for information in Customer Experience Insights • Designed and Implemented PowerApp solution for VEO/EMD Intake Portal, Skills Inventory, and Capacity Management System | |
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Traffic Technology Services: 2018 - 2023

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| Data Scientist Supervisor / Scrum Master | September 2020 - July 2023 |
| <ul style="list-style-type: none"> • Designed, implemented, and documented an automated data pipeline for traffic signal model generation • Managed Big Data pipelines with performance in mind, such as with a dataset that grew by 2TB/day • Utilized unsupervised machine learning (EP-Means) to cluster circularly distributed statistical data • Developed automated system for monitoring prediction quality against user experience of drivers near traffic signals • Worked with domain experts to incorporate their feedback into predictive models • 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 | |

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| DevOps Engineer | August 2018 - September 2020 |
| <ul style="list-style-type: none"> • Provided API support for clients using our predictions in their CV2X and Autonomous Vehicle Applications • Worked with agencies to establish connectivity to TTS's on-prem cloud hardware and software • Managed production rollout of new internal software releases, including installation and bug reporting | |

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
- Reduced dependency on parter data being recieved from Advanced Traffic Management Systems
- Tripled the count of traffic signals being modeled in the United States
- US Patent No. US-20230013604-A1
- Publication Date 2023-01-19

SKILLS

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- Object Oriented and Functional Programming: C#, Python
 - Data Visualization: Grafana, PowerBI, Tableau, R
 - Scripting: Windows Powershell, Bash, Jupyter Notebooks
 - Operating Systems: Confident with software development on/for Linux, Windows, and macOS

- Strong writing, documentation, and speaking skills especially with regard to Agile
 - Ability to work cooperatively in a team environment
 - Confident with the Microsoft Office Suite of tools, such as Sharepoint, Dynamics, Flow (Power Automate), Excel
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