

BRANDON SAMS

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EDUCATION

- Master of Science in Data Science, Bellevue University** **2019 – 2021**
- 3.80 GPA
- Bachelor of Science in Mathematics with Minor in Communication, Boise State University** **2013 – 2017**
- 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

- VA Profile Data Analyst** **May 2023 - Present**
- Fulfilled high-priority, high volume ad-hoc data requests for VEO Communications Team
 - Accelerated turn-around times and increased data autonomy by designing, implementing, and maintaining self-service contact information dashboard
 - Investigated and tracked data quality issues as visible in Customer Experience Insights
 - Designed and Implemented Power App solution for VEO/EMD Intake Portal, Skills Inventory, and Capacity Management System
 - Exploration, aggregation, and documentation of partner systems that are connected to VA Profile

Traffic Technology Services: 2018 - 2023

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

- DevOps Engineer** **August 2018 - September 2020**
- 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 partner data being received 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

- Object Oriented and Functional Programming: Python, C#
- Scripting: Windows Powershell, Bash, Jupyter Notebooks
- Confident with the Microsoft Power Platform, including PowerApps, PowerBI, and Power Automate
- Strong writing, documentation, and speaking skills especially with regard to Agile
- Excellent ability to work cooperatively in a team environment