

Brian Beadell
M.Sc. Data Science, Veteran

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EDUCATION

Master of Science Data Science

Eastern University, St. Davids, PA | 2024

- Focused on advanced topics in machine learning, big data analytics, and ETL workflows.
- Key projects: Developed a machine learning model for predictive analytics and automated data pipelines for real-world datasets.

Bachelor of Science in Biology

Pacific University, Forest Grove, OR | 2020

- Specialized in research and statistical methods, with applications in laboratory and agricultural studies.
- Developed foundational skills in data collection, statistical analysis, and reporting.

PROFESSIONAL EXPERIENCE

Chief Technical Officer

Farstar Agents

Nov 2024-Present

- Investor & Stakeholder Engagement – Pitching ideas, securing interest, and positioning FarStar Agents for future scalability and funding rounds.
- Investor & Stakeholder Engagement – Managing and coordinating efforts between developers, engineers, and marketing specialists to bring ideas to life.
- AI & Product Innovation – Spearheading the design and implementation of AI-powered applications, with a focus on gaming, automation, and interactive experiences.
- Startup Strategy & Vision – Leading the development of AI-driven solutions, defining company goals, and laying the foundation for scalable growth.
- Go-To-Market Strategy – Researching industry trends, identifying market opportunities, and refining product positioning in the AI and gaming sectors

Data Engineer

Apical Crop Science, Canby, OR

May 2024-Present

- Enhanced and optimized Apical's data infrastructure to efficiently manage and process high-volume lab and operational data.
- Developed and maintained ETL pipelines to streamline data ingestion and transformation from lab instruments and external sources, ensuring accuracy and consistency.
- Collaborated closely with CTO and COO to align data strategies with organizational goals and operational priorities.
- Automated data workflows for nutrient density testing, sample tracking, and recommendations, improving lab efficiency and turnaround times.
- Explored and implemented solutions to integrate laboratory instruments (e.g., ICP-OES, Gallery Discreet Analyzer) with backend systems to streamline data collection and processing workflows.
- Assisted in the development and maintenance of Django-based web applications, including client-facing dashboards, geospatial mapping tools, and automated report generation.
- Designed and deployed APIs to ensure seamless integration between internal systems and client applications.
- Provided clean and structured datasets to support machine learning workflows and geospatial analysis, enhancing operational decision-making.
- Established best practices and standards for data management, collaborating with cross-functional teams to meet evolving data needs.

Laboratory Manager

Apical Crop Science, Canby, OR

May 2020-May 2024

- Streamlined lab workflows, reducing data reporting time by 15% through automation and improved data systems.
- Conducted extensive research and mathematical analysis to validate experiments, ensuring high-quality test implementation.
- Designed and implemented six new laboratory tests, expanding capabilities and enabling development of innovative fertilizer formulations.
- Directed data entry and QA processes, improving the accuracy of nutrient testing by 20%.

Laboratory Technician

Apical Crop Science, Canby, OR

Nov 2018-May 2020

- Operated and maintained testing machinery, ensuring high-throughput chemical analyses with minimal downtime.
- Cleaned and formatted raw datasets for upload, achieving 100% compliance with data integrity standards.
- Prepared precise chemical formulations for testing, using advanced mathematical calculations to ensure accuracy.
- Assisted in the development of standardized protocols for efficient laboratory testing.

Dive Supervisor

C-Dive, LLC, Houma, LA

June 2008-June 2018

- Led multiple teams of divers and boat personnel during high profile evolutions through ultra-stress evolutions
- Design and implement safe and effective strategies for completing critical tasks with no time-loss injuries
- Performed complex multi-level mathematical computations for subsea dive operations, ensuring precise calculations of breathing gas mixtures and decompression rates to optimize diver safety and efficiency.

CERTIFICATIONS

Amazon Web Services

- Machine Learning: Art of the Possible
- Introduction to Amazon SageMaker
- Planning a Machine Learning Project
- Machine Learning Terminology and Process

Codecademy

- AI Strategy
- Intro to Midjourney
- AI for Marketing
- Intro to Generative AI on Google Cloud Platform
- Generative AI on AWS: Deploying & Managing GenAI Services on AWS
- JavaScript

Udemy

- Google Earth Engine for Remote Sensing & GIS
- Java Developer: Beginner to Master
- Geospatial APIs for Data Science In Python

SKILLS AND INTERESTS

Data Engineering: SQL, ETL processes, data modeling, data warehousing

Programming Languages: Python, RStudio, TensorFlow, Keras, Scikit-Learn, Java, JavaScript

Data Analysis & Visualization: Tableau

Web Development: HTML, CSS

Frameworks and Libraries: Django, Flask, Numpy, Pandas, Matplotlib, Seaborn

Communication: Strong verbal and written communication