

Brian Beadell

M.Sc. Data Science | Veteran | Portland, OR (Hybrid / Remote)(714) 785-0045
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Professional Summary

Data Engineer and Chief Technical Officer with a Master's degree in Data Science and a proven track record of building scalable AI systems, ETL pipelines, and real-world machine learning applications. Experienced in AI development, geospatial analytics, and full-stack web development. Strong collaborator with leadership experience across technical teams, focused on delivering practical solutions and continuous innovation. Veteran with a background in disciplined operations and resilient project execution.

Technical Skills

- **Programming Languages:** Python, Java, JavaScript, R, Go, Dart
- **Frameworks & Libraries:** React, TensorFlow, Keras, Scikit-Learn, Django, Flask, Pandas, Numpy, Matplotlib, Seaborn, Flutter
- **Data Engineering:** SQL, ETL pipelines, Data Warehousing, Data Modeling
- **Cloud & Tools:** AWS SageMaker, Google Earth Engine, Tableau
- **Web Development:** HTML, CSS
- **Specialties:** AI Agent Development, Machine Learning, Generative AI, Geospatial Analysis, Computer Vision, API Design

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 (Promoted from Chief Development Officer)

Farstar Agents

Dec 2024 - Present

- **Leadership Progression:** Promoted from Chief Development Officer to Chief Technical Officer in March 2025, recognizing leadership in technical strategy and project execution.
- **Team Coordination:** Managing developers, engineers, and marketing specialists to drive innovation and execution.
- **AI & Product Innovation:** Spearheading the design and implementation of AI-powered applications, focusing on gaming, automation, and interactive experiences.
- **Strategic Vision:** Leading the development of AI-driven solutions, defining company goals, and laying the foundation for scalable growth.
- **Market Strategy:** Researching industry trends, identifying opportunities, and refining product positioning in the AI and gaming sectors.

Data Engineer / Full-Stack Developer (Promoted from Laboratory Manager and Lab Technician)

Apical Crop Science, Canby, OR – Nov 2018 - Present

Data Engineer / Full-Stack Developer (May 2024 - Present):

- **Data Pipeline Development:** Developed and maintained ETL pipelines to streamline data ingestion and transformation from lab instruments and external sources, ensuring accuracy and consistency.
- **Strategic Collaboration:** Collaborated closely with CTO and COO to align data strategies with organizational

goals and operational priorities.

- **Workflow Automation:** Automated data workflows for nutrient density testing, sample tracking, and recommendations, significantly improving lab efficiency and reducing turnaround times.
- **Instrument Integration:** Explored and implemented solutions to integrate laboratory instruments (e.g., ICP-OES, Gallery Discreet Analyzer) with backend systems, streamlining data collection and processing workflows.
- **Web Application Development:** Assisted in the development and maintenance of Django-based web applications, including client-facing dashboards, geospatial mapping tools, and automated report generation.
- **API Design and Deployment:** Designed and deployed APIs to ensure seamless integration between internal systems and client applications.
- **Data Structuring for ML:** Provided clean and structured datasets to support machine learning workflows and geospatial analysis, enhancing operational decision-making.
- **Data Management Standards:** Established best practices for data management, collaborating with cross-functional teams to meet evolving data needs.

Laboratory Manager

Apical Crop Science, Canby, OR

May 2020 - May 2024

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

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 GCP, 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.

Independent Technical Projects

- Developed AI-powered quant crypto trading bots and financial analytical bots.
- Built a machine learning model for apple leaf disease classification (93% accuracy).
- Created an AI-powered job agent automating global job application workflows.
- Portfolio showcasing project details: brianbeadell.github.io/profile/

Additional Experience

Dive Supervisor

C-Dive, LLC, Houma, LA — June 2008 – June 2018

- Led multi-team subsea operations with a focus on safety, strategy, and technical precision.

Additional Strengths

- Strong verbal and written communication skills.
- Deep knowledge of AI applications for agriculture, gaming, and automation.
- Veteran with exceptional discipline, resilience, and leadership under pressure.