

Clayton Olsen

Data Scientist

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Summary:

- 4+ years of experience in statistical modeling, machine learning, and exploratory data analysis at an AI company, with a focus on real-world time series data and decision support tools
- Skilled in Python, R, and data engineering; experienced in communicating complex statistical concepts to technical and non-technical audiences
- Taking evening post-baccalaureate courses in clinical psychology at UC Berkeley Extension in preparation for graduate school

Work Experience:

Solutions Engineer

Falconry Inc - Cupertino - Dec 2024 to Present

- Built hundreds of classification and anomaly detection models to provide warnings and real-time feedback for a variety of customer use cases requiring deliberation on optimal algorithm selection, hyper-parameter tuning, variable selection, and data cleansing techniques
- Utilized AWS cloud platform tools such as boto3, S3, Rancher, Kubernetes, and Docker for the management of a machine learning pipeline for experimental neural network models and product code contributions, and added unit tests to prevent future breakdowns
- Developed and implemented geospatial models for density estimation and predictive object tracking that were visualized in Kepler using H3 grid data
- Wrote Python code and used REST API for automating data engineering tasks, generating reports for sharing findings with customers, and other automatable tasks within a developing application
- Developed a scripting pipeline utilizing APIs to automate customer report generation for fault summaries
- Presented machine learning use cases and collaborated with customers to address a variety of industry needs using Falconry's AI platform
- Led the ML Engineering team for several customer model development projects
- Ran customer team training in AI concepts and the management of machine learning models

Volunteer Teacher Assistant

Homework Central - San Mateo - March 2025 to Present

- Support 4th–5th grade students in an after-school learning environment, assisting with homework and engagement activities
- Collaborate with teachers to build positive learning experiences for students from diverse and underserved communities

Volunteer Educator/Travel Peru

El Hilo Rojo ONG - Trujillo, Peru - July 2024 - Sep 2024

- Designed and led educational programs for children through a community-based NGO focused on education, food security, and shelter
- Practiced conversational Spanish while volunteering and participating in cultural exchange

Software Engineer, ML Engineering Team

Falconry - Cupertino, CA - Nov 2021 - May 2024

- Designed and evaluated hundreds of classification and anomaly detection models using real-world, high-dimensional time series data
- Developed and tested experimental pipelines for spatial and temporal behavior modeling, including trajectory prediction and density estimation
- Managed deployment pipelines and cloud-based data infrastructure using Python, REST APIs, and AWS tools
- Led interactive training sessions with non-technical stakeholders to explain data patterns, modeling decisions, and reliability metrics

Data Science Team Intern

Sparta Science - Palo Alto, CA - June 2020 - Nov 2021

- Built and validated neural network models to predict injury risk and physical performance using athlete force plate data
- Conducted exploratory and inferential data analyses in Python and R, supporting model reliability studies for clinical and sports science applications
- Co-developed reproducible research workflows and performance metrics used in product development and clinical validation

Education:

MS Statistical Science, University of California Santa Cruz (2021)

- **Capstone Project:** Implemented Bayesian methodology to study trade-offs between efficacy and toxicity to find the dose level that optimizes a utility function in a variety of simulated experiments

BA Business Analytics, Seattle University (2019)

Post-Baccalaureate Coursework (In Progress), Clinical Psychology, UC Berkeley Extension — Starting Summer 2025