

# CARLY TAYLOR

## DATA LEADER

### CONTACT

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### LANGUAGES

Python

SQL

### SKILLS

#### Technologies

Kafka  
Docker  
Kubernetes  
Apache Spark  
Amazon Web Services (AWS)  
Google Cloud Platform (GCP)

#### Libraries

Keras  
Numpy  
Pandas  
Scikit-Learn  
TensorFlow

#### Machine Learning

Clustering  
Regression  
Classification  
Deep Learning  
Anomaly Detection  
Supervised Learning  
Operational Efficiency  
Unsupervised Learning  
Natural Language Processing

### FRANCHISES

Call of Duty®: Modern Warfare II  
Call of Duty®: Warzone™ 2.0  
Call of Duty®: Vanguard  
Call of Duty®: Black Ops - Cold War  
Call of Duty®: Warzone™  
Call of Duty®: Modern Warfare

### EDUCATION

#### University of Colorado

M.S. Computational Chemistry  
B.S. Chemistry, *Cum Laude*

### PROFESSIONAL SUMMARY

Data scientist, technical strategist, and video game enthusiast with an M.S. in computational chemistry and 5+ years of experience in tech. I thrive in a position of balancing hands-on development while collaborating with executive leadership to align on strategic visions.

### RELEVANT EXPERIENCE

#### Senior Manager - Machine Learning Security Strategy

Activision Mar 2022 - Present

- Reduced player churn by 15% by deploying scalable machine learning models to detect disruptive behavior
- Promoted to Senior Manager of Security Strategy responsible for internal communications with Activision executive leadership about disruptive behavior in Call of Duty®
- Responsible for strategic roadmap for franchise approach to disruptive behavior as well as bringing best practices in machine learning to key development areas (in-game AI, automated QA, compression)
- Built a team of machine learning and game engineers focused on strengthening the technology that delivers low-latency concurrent experiences to millions of players
- Developed security technologies that leverage our fleet of game servers to take action to protect our players

#### Lead Data Scientist

Activision Jan 2022 - Mar 2022

- Managed a team of data scientists developing distributed machine learning models
- Built, refined, and executed a roadmap for the Machine Learning team's approach to disruptive behavior
- Collaborated with executive leadership, game studios, live-ops, and marketing to align on project roadmaps and execute internal and external communication strategies
- Utilize Kafka and Spark Structured Streaming to develop real-time machine learning models for in-game anomaly detection
- Outlined team best-practices including library packaging, versioning, containerization, CI/CD and task-scheduling
- Triaged and shaped incoming requests and supervise team deliverables

#### Senior Data Scientist

Activision Aug 2020 - Jan 2022

- Built scalable machine learning models to detect disruptive behavior
- Designed and maintained efficient, production-quality detection tools to inform operations and measure performance
- Translated requirements from cross-disciplinary teams in Game Operations, Marketing, CRM, and Business Planning into data solutions
- Surfaced and communicated results to technical and non-technical colleagues by generating quarterly presentations and online dashboards

#### Data Scientist

Well Data Labs 2019 - 2020

#### Product Analyst

AirDNA 2018 - 2019

#### Marketing Analyst

Analytic Partners 2017 - 2018