

Ryan Tolone

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EDUCATION

University of California, Los Angeles (UCLA)

Bachelor of Science in Statistics and Data Science

Minor in Data Science Engineering

Los Angeles, CA

Expected Jun 2026

GPA: 3.5/4.0

WORK EXPERIENCE

Genter Capital Management

Software Engineer Intern

Los Angeles, CA

Jun 2025 – Aug 2025

- Developed a **secure Schwab RMD automation workflow** using Python, orchestrating authenticated data pulls, regulatory calculations, and compliance checks for high-net-worth portfolios.
- Deployed an **agentic AI chatbot** for 1,200+ clients, automating personalized RMD outreach and followups, cutting related advisor workload by **90%**.
- Architected a **data pipeline** integrating Black Diamond APIs and web scrapers, increasing critical account data completeness from **90% to 99%** and reducing manual data retrieval time by over **80%**.

Conifer Health Solutions

Machine Learning Engineer Intern

Irvine, CA

Jun 2024 – Aug 2024

- Built predictive models on large-scale healthcare data to forecast readmission risk; engineered features from demographics, treatments, and utilization data, raising performance by **15% AUC**.
- Developed a Python ML pipeline (**scikit-learn, PyTorch**) for automated diagnosis code classification, reducing manual coding by **30%** and cutting SQL preprocessing runtime by **40%**.
- Partnered with analysts and physicians to validate predictions and integrate results into dashboards, enabling **evidence-based clinical decision-making**.

PROJECTS

AI-Powered Recipe Generation iOS App

Aug 2025

- Built an iOS app with OCR pantry scanning and Firebase backend, enabling real-time multi-device ingredient tracking and supporting **2k+ recipe generation queries** during pilot testing.
- Integrated **Google Cloud's Gemini API** to generate personalized recipes from pantry data and dietary preferences; instrumented user behavior logging for downstream experimentation and analytics.
- Designed and ran **A/B experiments** on onboarding and subscription pricing, improving premium user conversion by **12% (p < 0.05)** and retention by **8%**, guiding data-driven product decisions.

LSTM-Based Poker Bluff Prediction Model

Mar 2025

- Built a data pipeline to parse and preprocess **10k+ PokerNow hand histories**, engineering features on bet sizing, player tendencies, and board texture to capture bluff-related dynamics.
- Trained and fine-tuned an **LSTM classifier** in PyTorch with dynamic bucketing of player actions, achieving **82.5% accuracy** and **0.84 F1-score** on unseen data via 5-fold cross-validation.
- Deployed the model as a REST API for real-time inference on live game states, demonstrating end-to-end application from feature engineering to production-ready deployment.

Computer Vision Pickleball Analytics System

Feb 2025

- Developed a computer vision pipeline with **YOLOv8** for detection and fine-tuned **ResNet50** for pose estimation, reaching **92% mAP** and sub-50ms inference latency on live rally footage.
- Improved keypoint detection precision by **20%** via a custom PyTorch CNN feature extractor, validated through cross-court test sets and fast-motion scenarios.
- Built a full-stack dashboard to quantify shot speed, travel distance, and positioning; ran pilot studies with players showing **15% improvement in rally consistency** when using system feedback.

SKILLS

Programming:	Python, SQL, C++
Data Science:	Pandas, NumPy, Scikit-learn, Statsmodels, A/B Testing, Data Visualization
Machine Learning:	PyTorch, TensorFlow, Feature Engineering, Model Evaluation, MLOps (Docker, GitHub Actions)
Databases & Cloud:	Google Cloud Platform (BigQuery, AI Platform), Firebase, REST APIs
Tools:	Git, Jupyter Notebook, VS Code