

JAYDEN LEE

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EDUCATION

University of California, Berkeley

B.A. in Data Science, B.A. in Computer Science

GPA: 3.63/4.00

Coursework: *Data Structures and Algorithms, *Principles of Data Science, *Multivariable Calculus, Intro to Data Science, Computational Structures, Linear Algebra and Differential Equation

Organizations: Open Project, Sports Analytics Group at Berkeley

SKILLS

Languages: Python, R, Java, TypeScript, SQL, HTML/CSS

Machine Learning: PyTorch, Tensorflow, NumPy, scikit-learn, Matplotlib, Seaborn, Pandas, Tableau, Kubernetes

Software Development: Git, Docker, Flask, FastAPI, React, Supabase

Research Interests: Optimization, Agentic AI, Deep Learning, LLM, AutoML, CV

EXPERIENCE

Cal Athletics (Contract)

February 2026 – Present

Machine Learning Researcher

Berkeley, CA

- Developing clustering and supervised **ML models** to predict ticket purchase propensity from behavioral data.
- Building **multivariate regression pipelines** to quantify purchases and generate a dynamic fan scoring system.
- Deploying model outputs **CRM workflows** to enable segment-level personalization and **conversion optimization**.

MatX (Contract)

December 2025 – Present

Machine Learning Consultant

Berkeley, CA

- Leading cross-functional team of 8 engineers building a **competitive benchmarking platform** for MatX (Series A AI chip startup) to evaluate **LLM training efficiency** across participant-submitted models.
- Architecting pipeline using **Docker containerization** and **Kubernetes** job scheduling to isolate participants.
- Driving client engagement with MatX hardware engineers to define **decode efficiency metrics**.

Oakland Roots Sports Club (Contract)

September 2025 – December 2025

Business Analyst

Berkeley, CA

- Utilized Python and Bart API to develop a scoring system for fan engagement by integrating real-time transit data into a marketing dashboard, requiring predictive modeling and data pipeline optimization.

Pacific Northwest National Lab

June 2024 – May 2025

Modeling & Simulation Intern

Richland, WA

- Developed a **target-decoy** statistical framework to model **false discovery rates (FDR)** for peptide identifications.
- Engineered threshold **optimization pipeline** using **precision-recall analysis** to evaluate peptide scoring strategies.
- Deployed GPU-accelerated proteomics workflows on **Tahoma HPC cluster** via Slurm scheduler, configuring **CUDA environment** and batch processing to scale peptide identification validation across large mass spectrometry datasets.

Pacific Northwest National Lab

June 2023 – August 2023

Computational Biology Intern

Richland, WA

- Engineered **file mapping and parsing** pipeline to align 36 MGF spectral files across heterogeneous tool formats.
- Executed benchmarking of 18 bacterial metaproteomics datasets with **Pandas** and **Seaborn** for statistical aggregation.
- Optimized the metaproteomics pipeline by processing **300,000+ mass-spec files** with GPU-accelerated Casanovo inference built on **TensorFlow**, reducing total runtime and increasing throughput for large-scale analyses.

PROJECTS

Datathon for Social Good (Clinical Intervention Simulator) 🏆 | *scikit-learn, NumPy, Tableau*

- Architected a **Monte Carlo simulation** framework in Python using **NumPy vectorization** to model 300 patient deterioration scenarios, integrating **Random Forest** model using **scikit-learn** for real-time intervention optimization.
- Engineered full-stack clinical web app in **Streamlit**, processing multimodal health data via **Pandas ETL pipelines**.
- Awarded **first place** in the 7th Annual Datathon at Berkeley alongside 50 teams and over 200 participants.

ChessBlitz 🏆 | *Flask, supabase, OpenRouter, React, SQL*

- Developed **infra** using **Flask** and **supabase** for chess platform storage and **SQL** to retrieve data from the database.
- Integrated **OpenRouter API** for **LLM-powered hint generation** to provide personalized guidance for students.
- Developed the frontend dashboard using **TypeScript** and **React** for teachers to manage individual classrooms.
- Contributed to an **open-source project** that serves as an app for connecting students at Berkeley Chess School.