Spencer Levine

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EXPERIENCE

DS Systems, Remote — Machine Learning Engineer Intern | August 2025 – September 2025
- Development Lead for a 7-person team building an AI-powered healthcare fraud detection prototype, coordinating sprint tasks, reviews, and delivery milestones
- Trained, Validated, and Tested fraud classification models on 12,930 healthcare claims, achieving ~95% accuracy and 0.90 F1-score and ~85% fraud recall on holdout data
- Built a full-stack analytics dashboard (HTML, CSS, JavaScript, Bootstrap) for model explainability and decision support, enabling prioritization of high-risk cases
- Led meetings and presented proof of concept to the entire company

California State University, Northridge — Undergraduate Research Assistant in Compilers & Programming Languages | Nov 2025 – Present
- Research under Prof. Kyle Dewey in programming languages, compilers, and automated testing
- Building a small programming language and compiler to study correctness and testability
- Developing unit and property-based tests to improve reliability and bug detection, focusing on automated testing frameworks and correctness guarantees
- Work contributes to a research codebase for experimental language and compiler evaluation

PROJECTS

Storm44 — AI-Powered Study Tool (Capstone)
- MVP AI platform that converts YouTube videos, PDFs, and notes into flashcards, quizzes, and games on a cloud hosted backend and MongoDB Atlas Vector Search
- Integrated an AI tutor pipeline for personalized study assistance, supporting content ingestion, transformation, and interactive feedback

SurfHQ — Surf Community & Wave/Beach Recommendation Platform
- Full-stack web application with interactive map, surf feed, and marketplace
- Java, Spring Boot, SQL, JavaScript, Leaflet.js, Bootstrap, HTML/CSS

E-Commerce Platform — Gaming Computer Parts
- Full-stack e-commerce application with Stripe payment integration
- Java, Spring Boot, SQL, JavaScript, HTML/CSS, Bootstrap

Personal Portfolio Website
- Self-hosted portfolio showcasing projects, work experience, technical skills, contact info, organizations, and education
- Built with HTML/CSS and deployed via GitHub Pages

EDUCATION

California State University, Northridge — B.S. Computer Science | Aug 2023 – May 2026

Los Angeles Pierce College — A.A. Computer Science | Aug 2021 – May 2023

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, HTML, CSS, SQL, C++, C, C#

Frameworks & Libraries: Spring Boot, Pandas, Scikit-learn, XGBoost, Leaflet.js, Bootstrap, JQuery, Matplotlib, Seaborn, FastAPI, Joblib, Sentence-transformers (e5-base), RAG evaluation (ragas)

Tools & Platforms: Git, GitHub, Azure, Jira, REST APIs, Node.js, Kaggle, Hugging Face, Live Server, Stripe

Concepts: Machine learning pipelines, feature engineering, classification models, project management, etc