

EDUCATION

- **University of California, Riverside** Riverside, CA
Bachelor of Science in Computer Science; GPA: 3.91 Sep 2025 – June 2027
 - **Graduate coursework:** Data Mining Techniques (CS 235)

EXPERIENCE

- **Reader/Grader** Riverside, CA
University of California Riverside Sep 2026 – Present
 - Graded CS 161 and CS 111 assignments.
 - Worked directly with the instructor on grading questions and deadlines, kept solutions and student records confidential, and reported possible academic-integrity issues.
- **Computer Science Intern** Irvine, CA
Orange County Healthcare Agency HDP Jan 2026 – Aug 2026
 - First project consisted of automating the inventory tracking system so that changes in the source of truth reflected throughout the OCHCA Atlassian ecosystem.
 - Second project consisted of automating the After Action Review pipeline. Incident happens → AAR evaluations get submitted → construction of changes → implement changes.
- **Emergency Medical Technician** Loma Linda, CA
Loma Linda Children's ER Sep 2022 – Apr 2024
 - Level 1 trauma ED, working under RN/NP/physician supervision and switching between Patient Care Assistant, Telemetry Technician, and Unit Secretary duties as assigned throughout the shift.

SKILLS

- **Languages:** Python, C++, SQL, Rust
- **Frameworks and Libraries:** FastAPI, Playwright, Pandas, NumPy, scikit-learn, PyTorch, Matplotlib, pytest
- **Tools:** Git, Jira, SQLite, REST APIs, Anthropic API, MCP, Linux

PROJECTS

- **Sector Rotation Trading Strategy**
 - Build a portfolio that re-balances and picks the top 3 of 11 S&P500 sectors based on the likelihood they beat the S&P500 index.
 - Random Forest machine learning model learns tree structure that best divides the features.
 - Model averages 4% annualized return, unfortunately well under the S&P500's 10%.
- **Autonomous Job Board Finder**
 - Website takes a Linked-In job URL and finds the job board on the company website (access key required: **LINK**).
 - ScrapingDog API used to scrape Linked-In for the company website.
 - Created a rule set to quantify web-pages and used Anthropic API to infer the next best option. Do this until website value crosses threshold or max hops is reached.
- **FRA Highway-Rail Incident Data Mining Project**
 - Compare classical and more recent machine learning methods.
 - Compared Decision Tree and Tab-Net. The goal was to classify whether an incident produced an injury or not.
 - Compared K-medoids and HDBSCAN. The goal was to cluster data and better understand the relationships within the clusters.