Rishi Dave

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EDUCATION

University of California, Riverside   **Riverside, California**
B.S. Major in Computer Science, Minor in Math   *Expected Graduation, June 2027*
- o   **GPA:** 3.95/4.00, *Dean's Honor List, Chancellor's Honor List, Tau Beta Pi Honors*
- o   **Related Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Machine Learning, AI

EXPERIENCE

University of California, Riverside, Information Technology Solutions Department   **Riverside, California**
Data Science Fellow   *June 2025 – August 2025*
- Designed an **AI-powered academic planner** that provided on-device, personalized course recommendations for **250+ students**, cutting planning time by **2+ hours** per quarter.
- Built a scalable, production-ready platform (**FastAPI, Next.js, MongoDB, Pinecone**) to support contextual data retrieval with a modular multi-agent workflow (**LangChain/LangGraph**).
- Streamlined deployment using **Docker and CI/CD**, ensuring reliability and rapid iteration for university-wide use.

Reeko Cabinets, LLC   **Union City, California**
Software Engineering Intern   *June 2024 – September 2024*
- Designed a **linear regression model** predicting parts demand with **25% improved accuracy** vs manual forecasting.
- Automated inventory management system, reducing stockouts and optimizing procurement cycles.

Crest Data Systems   **San Jose, California**
Software Engineering Intern   *June 2023 – Aug 2023*
- Built a real-time log-streaming pipeline in Splunk/Linux processing **1000 + HR security files/min** via **TCP sockets** for event analysis.
- Automated data pre-processing and indexing, reducing manual debug time and improving alert precision for enterprise clients.
- Resolved **12% login failure rate** through root-cause analysis of **Linux** production logs and error signal instrumentation.

PROJECTS

UCR Course Size Predictor *(CatBoost, Python, SQLite, Pandas)*   *June 2025*
- Built a **CatBoost regression model** predicting future quarter course sizing with **<15% MAPE across 95% of classes**.
- Designed ETL pipelines to unify disparate datasets in **SQLite**, allowing consistent training and evaluation.
- Delivered interpretable results with clear error metrics, supporting data-driven resource planning for the university.

MemoirAI - AI-Powered Personal Storytelling App *(LLM, AWS, Python, Flask, DynamoDB, Linux)*   *March 2025*
- Created a **full-stack iOS app** that transforms photos into narrative stories using GPT-4 Vision.
- Deployed the app on AWS cloud infrastructure, integrating a **Flask REST API** on **EC2**, **Lambda** for event-driven scaling, and **DynamoDB** for persistence
- Optimized mobile upload flow by compressing images on-device, achieving an **80% reduction in transfer size** and faster user responsiveness.

Fitness Tracker Mobile App *(AWS Amplify, AppSync, DynamoDB, Cognito, SwiftUI)*   *November 2024*
- Created an iOS fitness app on AWS with **real-time GraphQL data sync via AppSync**, providing instant updates across devices.
- Automated CI/CD through **AWS CodePipeline** integrated with **Device Farm**, running **100+ tests** to streamline deployments.
- Integrated **Cognito** for user authentication, securing sensitive data while enabling seamless account management.

SKILLS

Programming Languages: Python, C++, C, Java, SQL, HTML/CSS, JavaScript
AI/ML: LangChain, LangGraph, OpenAI API, Llama, Gemini, Pandas, Jupyter, Pytorch, Tensorflow
Backend/Cloud: AWS (EC2, Lambda, Amplify, AppSync, DynamoDB, Cognito), Azure, Flask, MongoDB, PostgreSQL, SQLite
Frontend: React, Next.js, SwiftUI, HTML/CSS
Tools: Git, VSCode, Claude Code, Splunk, Azure, PowerBI, Linux, CI/CD, FastAPI, Docker