Vedant Sinha

925-352-0468 | vedantsinha3@gmail.com | [LinkedIn](#) | vsinha.fyi

EDUCATION

University of California, Merced   Merced, CA
B.S. in Computer Science and Engineering   *May 2026*
- **Relevant Coursework:** Data Structures & Algorithms, Assembly & Computer Org, Intro to AI, Algorithm Design, Computer Vision, Digital Processing, Object Oriented Programming

EXPERIENCE

4L Data Intelligence   San Ramon, CA
Machine Learning Engineer Intern   *May 2025 – August 2025*
- Developed intelligent data tagging models using NLP, which automated the classification of over **10,000 enterprise documents** and improved processing efficiency by **15%**.
- Integrated the pipeline with **Snowflake** using snowflake-connector-python, enabling scalable ingestion and querying of healthcare provider datasets.
- Collaborated with engineering teams to optimize ML pipelines, reducing model inference time by **25%** and enabling **real-time data processing**.

Owligator   Merced, CA
Backend Developer   *Jan 2025 – May 2025*
- Engineered a computer-vision pipeline with GPT-4 Vision + OpenCV to catalog **1,000+** wine bottles, boosting recognition accuracy by **18%** with Real-ESRGAN enhancement.
- Developed a **low-latency Flask REST API** capable of handling **hundreds of concurrent image requests** in under **200ms**, enabling real-time catalog updates
- Shipped a **production-ready React frontend** for catalog management, successfully deployed to a pilot client and validated through active use

Labcorp   Pleasanton, CA
Engineering Intern   *May 2023 – Aug 2023*
- Automated **data quality validation** checks, reducing inconsistencies by **30%** in compliance reporting.
- Built **centralized object connectivity maps** in Green Light Guru, enabling stakeholders to trace **100+ product relationships**.
- Enhanced data quality in Green Light Guru, a product lifecycle management (PLM) tool used by Sandstone.

PROJECTS

Vision Uploader – *Full-Stack Wine Collection Tracker*   Apr 2025
- Engineered a **Flutter mobile app** to scan wine labels and upload them to a backend server
- Created a pipeline that enhanced image quality via **Real-ESRGAN**, boosting recognition accuracy by **18%**
- Built robust upload endpoints to handle high throughput with latency optimizations, enabling fast, reliable transfer of images from mobile to server

Vain – *Ecommerce Platform*   Nov 2024 – Present
- Implemented a **React website** featuring product collections, denim archive, trending releases, and FAQs.
- Built **interactive components** including shop-all filters, contact forms with validation, and FAQ accordions.
- Styled the site with responsive layouts and modern UI/UX patterns, simulating an end-to-end e-commerce experience with pages for new releases, shipping policies, and customer support.

Wordle Solver with Recommendations – *Algorithms + Full-Stack*   July 2025
- Ranked **2,315 solutions** via entropy scoring with <100ms Flask API response time.
- Integrated React UI replicating Wordle with **real-time probability breakdowns**.
- Added C++ fallback engine, boosting filtering speed by **40%** under heavy load.

TECHNICAL SKILLS

Languages: Python, C++, C, JavaScript, Swift, SQL
Frameworks: React, Flask, Flutter, Tauri
Developer Tools: Git, Docker, Linux
Libraries: OpenCV, NumPy, Pandas, Keras, BeautifulSoup, PyMuPDF