

Ketan Sarda

[Portfolio](#) | sardak@uci.edu | (949)-992-4730 | [linkedin/ketan-sarda](https://www.linkedin.com/in/ketan-sarda) | github.com/slimshady-9

Education

University of California, Irvine

Sep 2024 - Dec 2025

Master's in Computer Science

MES College of Engineering, Pune, India

Jul 2018 - May 2022

Bachelor of Engineering, Computer Engineering (Honors in Data Science & Statistics)

GPA 8.92/10

Intercollegiate Coding Event Winner, Technical member at Google DSC, Association of Computer Engineers

Technical Skills

Languages: C, C++, Java, Python, SQL, Javascript, HTML & CSS

Tools: REST APIs, Angular, React, AWS, Git, Web Application Firewall, Docker, Kubernetes, Jenkins, Linux, Operating Systems

Technologies: Cloud Computing, Object Oriented Programming, Distributed and Parallel systems, CI/CD

Professional Experience

Persistent Systems

Pune, India

Senior Software Engineer, HealthCare & Life Sciences

Jun 2022 - Aug 2024

- Architected and implemented a suite of 5 reusable web components, which streamlined development across 7 applications within a large mono repository, boosting developer productivity by 75%
- Optimized API performance, reducing response time by 66.67% (from 5.7 seconds to 1.9 seconds) for 100 concurrent users
- Streamlined front-end performance, reducing API calls by 25% using efficient model, service, and pipe updates. This resulted in a more responsive UI and potential cost savings of around 12%
- Partnered with the QA team, automating 147 test cases using Protractor, Jasmine. This collaboration contributed to achieving over 95% test coverage

Software Engineering Intern

Jan 2022 - Jun 2022

- Developed a real-time stock tracking web application using Angular, which integrated with a Real-time API to produce a responsive website that displayed charts and data visualization for 500 companies over the past 5 years
- Received recognition as the best performer, demonstrating proficiency in the subject matter during the training among 100+ candidates

Academic Projects

MedTranscribe

Feb 2024 - Mar 2024

- Offering a platform tailored for clinics & hospitals to seamlessly transcribe audio recordings of doctor-patient interactions
- Implemented real-time transcription, symptom & disease recognition, medication and medical test extraction using IBM WatsonX which improved accuracy by over 30%, customizable report generation, and interface for accessing and editing patient records

[Github](#)

Patient Risk Stratification

Apr 2023 - May 2023

- Developed a web application (Angular, Flask, Python, SQL) by preprocessing MIMIC-3 dataset (46K+ patients) to analyze chronic conditions, ED visits, and calculated risk scores based on it and machine learning (SVD, KNN, Random Forest) for predicting health outcomes

[Github](#)

Smart Marketing through Product Recommendation (Natural Language Processing) **Jan 2022 - Jun 2022**

- Software application designed to efficiently recommend products using Deep Belief Network
- Key Features include usage of Bag of Words, TF-IDF, Cosine Similarity achieving with precision of 93% and recall of 90%

[Github](#)

Awards and Achievements

- Awarded **Best in Communication & Media** and **Top 8 Finalists** at Persistent System's Annual Global Semicolon Hackathon (120+ teams) for developing a rapid operator onboarding and management platform with AI-powered recommendations for Mobile Virtual Network Operators **Feb 2023**
- Rewarded Persistent System's Bravo Individual Award: Topper for GEMS 2022 Batch **Jun 2022**
- Rewarded Persistent Bravo Teams Award for remarkable Performance & Active Participation **Mar 2023**