Ketan Sarda

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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 - Jul 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**