

# Ketan Sarda

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## Education

### University of California, Irvine

Dec 2025

Master of Computer Science

*Coursework: Operating Systems, Artificial Intelligence, Advanced Programming and Problem Solving*

### MES College of Engineering, Pune, India

May 2022

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

GPA 3.8/4

*Coursework: Data Structures & Algorithms, Computer Architecture, Database Management, Computer Networks, Software Engineering, Human Computer Interaction, Cryptography & CyberSecurity*

## Technical Skills

**Languages:** Python, C, C++, Java, SQL, JavaScript, TypeScript, HTML & CSS

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

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

## Work 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 with React, HTML and Stencil JS, which accelerated development across 7 applications within a large mono repository, boosting developer productivity by 75%
- Effectively reduced API response time by 66.67% (from 5.7s to 1.9s) for 100 concurrent users by optimizing product filtering in Java
- Improved front-end performance in Angular, 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%
- Automated 147 test cases with Protractor and Jasmine, while achieving over 95% test coverage

#### Software Engineering Intern

Jan 2022 - Jun 2022

- Built a real-time stock tracking system leveraging 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

## Projects

### MedTranscribe

Feb 2024 - Mar 2024

- Streamlined medical transcription for clinics & hospitals using React, Python, MongoDB, IBM WatsonX
- Features real-time transcription, disease recognition, medication extraction, customizable reports, & patient record access. Improved accuracy by over 30% [Github](#)

### Patient Risk Stratification

Apr 2023 - May 2023

- Engineered a web platform with Angular, Python, Flask, SQL analyzing 46K+ patients' data for chronic conditions and ED visits to calculate risk scores
- Integrated machine learning models (SVM, KNN, Random Forest) to predict health outcomes [Github](#)

### SmartSuggest (Natural Language Processing)

Jan 2022 - Jun 2022

- Spearheaded a product recommendation system using Java, SQL, Deep Belief Network with Bag of Words, TF-IDF, and Cosine Similarity, achieving 93% precision and 90% recall [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**