

# Raj Patel

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## EDUCATION

<b>California State University</b> Master of Science in Computer Science	<b>Long Beach, CA</b> Jan. 2023 – Dec 2024
<b>Gujarat Technological University</b> Bachelor of Technology in Computer Engineering	<b>Ahmedabad, India</b> June. 2017 – July 2021

## EXPERIENCE

<b>California State University</b>   Research Assistant   <b>Long Beach, U.S.A</b>	<b>June 2024 – Present</b>
<ul style="list-style-type: none"><li>Spearheaded and implemented machine learning models using Python, NumPy, and TensorFlow to analyze daily movement datasets captured via radar sensors, identifying key movement patterns.</li><li>Preprocessed and structured radar sensor data using Python, applying Fast Fourier Transform (FFT) algorithm and signal filtering to extract key features for accurate analysis.</li><li>Developed React Native app for iOS/Android, collaborating with faculty and other team members to enhance patient engagement and activity through personalized data insights.</li><li>Designed and set up AWS services, including Amazon S3 for scalable storage, aiming to cut data retrieval times by 40% and ensure secure data management.</li></ul>	
<b>Gujarat Infotech Limited</b>   Software Engineer   <b>Ahmedabad, India</b>	<b>July 2021 – Dec 2022</b>
<ul style="list-style-type: none"><li>Utilized Flask and agile methodologies to create RESTful APIs, allowing for seamless interaction between front-end and back-end systems and a 30% reduction in API response times.</li><li>Built and maintained Django RESTful APIs using Version Control, and optimizing cache efficiency through Redis integration, achieving 20% faster response times, 30% fewer database queries and improved security.</li><li>Fostered the seamless coupling of an email communication system and a payment gateway, which increased successful transactions by 38% and user retention by 16% and enhanced security.</li><li>Deployed a CI/CD pipeline using Jenkins, resulted in a 70% reduction in error rates and a 25% increase in deployment frequency.</li><li>Successfully deployed web apps to AWS EC2 instances, ensuring 99.9% uptime and high availability, resulting in 20% reduction in average response time by fine-tuning server configurations and optimizing database queries.</li><li>Leveraged Docker Compose to optimize the deployment of high complex Flask and Django apps, reducing deployment time by 50% and improving configuration inconsistencies, resulting in a 25% decrease in IT spending for the firm.</li><li>Implemented Role-Based Access Control (RBAC) using JSON Web Tokens (JWT) for web apps, assuring authorized access and safeguarding sensitive data.</li><li>Structured PostgreSQL schemas, cut query time by 18% in web application, optimizing web development performance.</li></ul>	
<b>Gujarat Infotech Limited</b>   Software Engineering Intern   <b>Ahmedabad, India</b>	<b>Jan 2021 – March 2021</b>
<ul style="list-style-type: none"><li>Orchestrated the transformation of user interfaces using React and MobX, fostering a remarkable 24.73% surge in user engagement, and collaborated with cross-functional teams to execute rigorous software testing, validation and debugging processes.</li><li>Spearheaded a front-end transformation with React and JavaScript integration, leading in a 20% reduction in package size and 40% faster loading speed, also contributed to effective code review meetings to guarantee the front-end component's quality and maintainability.</li><li>Outlined the design and implementation of a real-time notification system using React, TypeScript, Redux, and WebSockets, resulting in an 80% decrease in latency; also led to rigorous software testing and validation procedures ensuring product stability and quality.</li></ul>	

## PROJECTS

<b>Morning News (News App)</b>   Python, Tkinter
<ul style="list-style-type: none"><li>Engineered a robust CRUD application using Django framework, enabling seamless task management for 300+ students; optimized workflow efficiency by 22% through streamlined task allocation and progress tracking.</li><li>Pioneered the integration of external APIs, expanding the application’s functionality; resulted in providing users with a richer, more streamlined experience through seamless access to diverse data within the app's interface.</li></ul>
<b>ChatBridge Network ( Social Meetup Platform)</b>   React, Node.JS, MongoDB, Express.JS
<ul style="list-style-type: none"><li>Hosted a fully optimized chat app on Hostinger, leveraging advanced technologies like React, Express.js, MongoDB and Node.js; improved server response time by 14%, resulting in increased user satisfaction scores by 20%.</li><li>Integrated Socket.io with Zustand for real-time communication and state management in a full-stack chat application, enhancing responsiveness and user interaction through efficient group creation and file handling.</li></ul>

## TECHNICAL SKILLS

**Languages/Databases:** C, C++, C#, Java, Python, JavaScript, HTML, CSS, Go, MySQL,SQL, MongoDB, PostgreSQL, Oracle  
**Frameworks/Libraries:** React, Node.js, Flask, RESTfulAPI, Django, pandas, NumPy, Matplotlib, Tensorflow, Pytorch  
**Developer Tools/Cloud:** Git, VS Code, PyCharm, IntelliJ, Eclipse, Jira, Jenkins, kubernetes, kafka, AWS, Docker