# Raj Patel

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## EDUCATION

**California State University**                                                                                      **Long Beach, CA**
Master of Science in Computer Science                                                                          Jan. 2023 – Dec 2024

- **Coursework:** Adv. Programming Languages, Adv. Analysis of Algorithms, Adv. Software Engineering, Adv. Artificial Intelligence, Adv. Computer Architecture, Topics in Distributed Computing

**Gujarat Technological University**                                                                              **Ahmedabad, India**
Bachelor of Technology in Computer Engineering; **GPA:9.30/10.0**                                   June. 2017 – July 2021

- **Coursework:** Data Structures & Algorithms,Web Technology, Data Mining & Business Intelligence, Operating Systems, Database Management Systems, Cyber Security, Mobile Computing & Wireless Communications

## EXPERIENCE

**Gujarat Infotech Limited** | Software Engineer | **Ahmedabad, India**                          **Sept 2021 – Oct 2022**

- 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.
- Developed 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.
- 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.
- Implemented a CI/CD pipeline using Jenkins, resulted in a 70% reduction in error rates and a 25% increase in deployment frequency.
- 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.
- Used 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.
- Implemented Role-Based Access Control (RBAC) using JSON Web Tokens (JWT) for web apps, assuring authorized access and safeguarding sensitive data.
- Structured PostgreSQL schemas, cut query time by 18% in web app, optimizing web development performance.

**Gujarat Infotech Limited** | Software Engineering Intern | **Ahmedabad, India**          **Jan 2021 – March 2021**

- 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.
- 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.
- 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 rigorous software testing and validation procedures ensuring product stability and quality.

## PROJECTS

**Student Study Portal (CRUD)** | HTML, CSS, JavaScript, Python, Django

- Developed dynamic CRUD app with Django, empowering 300+ students for efficient task management; reducing time by 22% in task management.
- Crafted engaging login page with HTML, CSS, JS, elevating user engagement and login success rate by 12%.

**Morning News (News App)** | Python, Tkinter

- Developed a Python desktop application featuring a user-friendly GUI built using Tkinter.
- Seamless NewsAPI integration, 25% boost in user engagement through real-time data presentation..
- Connected app to external APIs, displaying data proficiency, expanding capabilities, showcasing versatility.
- Expertly employed NewsAPI, showcased 300+ current news, enhancing content and relevance for informed users.

**MeetupMaster ( Social Meetup Platform)** | React, Node.JS, MongoDB, Next.JS

- Utilized Next.js and MongoDB. User-auth via Google/Facebook OAuth. Achieved 20% loading optimization.
- User authentication and directed MongoDB-based meeting management,resulted in a surprising 40% speed boost.
- Static rendering, React, Next.js SSR were integrated. UX accelerated with content delivery that is 50% quicker.
- Pioneered dynamic interest-based events, empowering seamless discovery and elevating engagement by 60%.

## TECHNICAL SKILLS

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