

# SARTHAK PARIKH

## PROFESSIONAL SUMMARY

Software Engineer with three years of full-stack development. Proficient in modern languages and frameworks, I build robust web applications and scalable back-end systems. I leverage advanced front-end libraries and efficient server-side technologies, manage diverse databases, and streamline development with cutting-edge tools. Additionally, I implement real-time communication protocols and deploy cloud solutions to deliver high-quality, scalable software.

## WORK HISTORY

### **FREELANCE WEBAPP DEVELOPER | Ahmedabad, India**

July 2022 to June 2023

- **Challenge:** Rectified critical integration glitches within legacy systems by refactoring code, ensuring seamless data flow between platforms and minimizing downtime, resulting in zero reported data loss incidents.
- **Action:** Leveraged React's component-based architecture for rapid prototyping; developed a modular, asynchronous backend using Spring Boot to handle high concurrency; and integrated agile practices with JIRA, Trello, and CI/CD pipelines via Jenkins to reduce deployment time by 20%.
- **Result:** Achieved 97% uptime for over 3K users, increased client satisfaction by 30%, and delivered customized solutions—such as automated reporting—that improved operational efficiency through direct collaboration with 10+ clients.

### **RAPIDOPS SOLUTIONS | Software Engineer Intern | Ahmedabad, India**

January 2022 to June 2022

- **Challenge:** Accelerated system responsiveness by 35% through targeted code optimization; enhanced search functionality leveraging Elasticsearch, reducing average query response time by 1.2 seconds across 500,000+ daily searches.
- **Action:** Architected a scalable back-end infrastructure with robust server technologies such as AWS Lambda and DynamoDB, supporting a 70% increase in application traffic with zero downtime incidents during peak hours.
- **Result:** Spearheaded the development of interactive web features, resulting in 25% higher user engagement for new modules and a 95% on-time delivery rate attributed to pre-release bug fixes.

## PROJECT LIST

### **PERMISSION-BASED ADMIN DASHBOARD**

- **CHALLENGE:** DIAGNOSED VULNERABILITIES STEMMING FROM INADEQUATE ROLE-BASED ACCESS CONTROLS THAT WERE CAUSING 12 RECURRING UNAUTHORIZED DATA ACCESS INCIDENTS LEADING TO POTENTIAL DATA BREACHES, AND AFFECTING USER EXPERIENCE.
- **ACTION:** IMPLEMENTED OAUTH2 FOR SEAMLESS THIRD-PARTY INTEGRATIONS AND INCORPORATED REDIS FOR EFFICIENT SESSION MANAGEMENT, IMPROVING APPLICATION RESPONSE TIMES BY 30% AND USER SATISFACTION SCORES.
- **RESULT:** ACHIEVED 97% UPTIME WHILE REDUCING UNAUTHORIZED ACCESS ATTEMPTS, IMPROVED USER SATISFACTION WITH AN INTUITIVE ROLE-BASED INTERFACE, AND LOWERED MAINTENANCE COSTS THROUGH RESOURCEFUL SYSTEM MONITORING.

### **STUDENT MANAGEMENT SYSTEM**

- **CHALLENGE:** MODERNIZED LEGACY SYSTEM THROUGH STRATEGIC CODE REFACTORING, DECREASING SYSTEM DOWNTIME BY 30% AND INCREASING PROCESSING SPEED BY 40%; THIS WAS ACHIEVED THROUGH A FULL SYSTEM OVERHAUL.
- **ACTION:** PIONEERED A COMPREHENSIVE PLATFORM UTILIZING SPRING BOOT, ANGULAR, AND SQL; AUTOMATED REGISTRATION, ATTENDANCE TRACKING, AND GRADE PROCESSING, REDUCING ADMINISTRATIVE WORKLOAD BY 60% AND STUDENT WAIT TIMES BY 35%.
- **RESULT:** STREAMLINED ADMINISTRATIVE PROCESSES BY 40%, REDUCED ERROR RATES, GARNERED POSITIVE USER FEEDBACK, AND ACHIEVED MEASURABLE COST SAVINGS THROUGH MINIMIZED MANUAL INTERVENTION.

### **HOSPITAL MANAGEMENT SYSTEM**

- **CHALLENGE:** DESIGNED ROLE-BASED ACCESS CONTROLS FOR PATIENT RECORDS, LIMITING ACCESS TO AUTHORIZED PERSONNEL ONLY; THIS REDUCED UNAUTHORIZED ACCESS INCIDENTS FROM 10 PER WEEK TO ZERO.
- **ACTION:** COLLABORATED WITH HEALTHCARE PROFESSIONALS TO DESIGN A FULL-STACK SOLUTION USING REACTJS, SPRING BOOT, AND SQL; IMPLEMENTED ROBUST ROLE-BASED ACCESS CONTROLS, ENCRYPTION PROTOCOLS, AND HIPAA-ALIGNED STANDARDS; AND INTEGRATED WITH EXISTING EHR SYSTEMS TO OPTIMIZE DATA RETRIEVAL.
- **RESULT:** REDUCED DATA RETRIEVAL TIMES BY 60%, ENHANCED OPERATIONAL EFFICIENCY AND RESOURCE ALLOCATION, IMPROVED PATIENT SAFETY, AND BOOSTED USER SATISFACTION AMONG HEALTHCARE STAFF.

## EDUCATION & CERTIFICATION

**Master of Computer Science, New Jersey Institute of Technology**

**December 2024**

**Bachelor of Science in Information Technology, Gujarat University**

**May 2023**

## TECHNICAL QUALIFICATIONS

Java 8, Java 11, Java 17+, JavaScript, ReactJS, Angular, NextJS, Spring Boot, NodeJS, Express JS,, Hibernate, MySQL, Oracle, MongoDB, Elasticsearch, Git, Docker, CI/CD pipelines, Kubernetes, AWS, Azure, REST APIs, GraphQL , WebSocket, Kafka