

Pritesh Dhandhukia

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PROFESSIONAL SUMMARY

Full-Stack Developer and Quality Analyst with 1.5+ years of hands-on experience in building scalable web and mobile applications using React, Node.js, Flutter, and modern JavaScript frameworks. Proven expertise in test automation, database optimization, and deploying production-ready applications. Skilled in integrating AI capabilities into full-stack solutions using Python and ML frameworks. Seeking impactful Software Engineering roles leveraging analytical rigor and innovative development practices.

EDUCATION

- Gujarat Technological University** Bhilad, Gujarat
Bachelor of Engineering - Computer Science; GPA: 7.8 July 2018 - June 2022
Courses: Artificial Intelligence, Machine Learning, Data Structures, Analysis Of Algorithms, Networking, Databases

TECHNICAL SKILLS

- **Programming:** Python, Dart, JavaScript(TypeScript), C#, SQL
- **Mobile & Web:** React, Flutter, Node.js, HTML/CSS
- **Databases:** MS SQL, Firebase Firestore
- **MLOps & Testing:** Selenium (C#), Docker, CI/CD
- **Tools:** Git/GitHub, VS Code, Figma

PROFESSIONAL EXPERIENCE

- Civica Resource Pvt. Ltd.** Vadodara, Gujarat
Quality Analyst (Test Automation) July 2023 - Feb 2025

Led quality assurance for three enterprise healthcare platforms serving NHS trusts, developing predictive defect analysis methods and automation frameworks using Selenium with C# and rigorous manual testing to enhance efficiency and reliability.

Civica Prescribing - AI-Powered QA & Predictive Analytics

- **Executed** comprehensive manual testing for an NHS-wide mental health and acute care medication management platform serving 50+ healthcare trusts, validating clinical safety workflows, formulary compliance, and pharmacy processes through **web-based** test case generation
- **Strengthened** platform reliability by designing 80+ edge-case test scenarios and executing hybrid black-box/white-box testing, uncovering critical vulnerabilities in medication safety modules while developing method to defect pattern tracking systems to reduce QA cycle time by 20%.

CITO - Clinical Information Management System QA

- **Led** comprehensive manual testing initiatives for a real-time electronic health records (EHR) system unifying patient data across NHS clinical settings, validating 12+ integrated clinical modules including patient workflows, care pathways, and document management through rigorous exploratory and boundary condition analysis.
- **Achieved** zero critical defects in production by leading a 200+ test case manual testing framework, ensuring data accuracy, reliability, and 99.9% uptime for business-critical operations while coordinating with development teams to validate integrations with third-party NHS systems.

MultiVue MDM - Automated Testing & C# Selenium Framework

- **Architected** a robust automated testing framework using **Selenium WebDriver (C#)** with Page Object Model design pattern for a Master Data Management platform with all-time breakthrough for NHS patient and organizational data synchronization, implementing 150+ automated test cases covering data matching, merging, and enrichment.
- **Accelerated** testing efficiency by 60% through CI/CD pipeline integration with **Azure DevOps** for nightly regression testing, mastering advanced C# concepts including LINQ, async/await, and parallel test execution to achieve 85% code coverage across MultiVue Enrich, Share, and CRM Embed modules using **MS SQL**

INTERNSHIP EXPERIENCE

- **ExamRoom.AI**
AI and Web Development Intern

Bangalore, Karnataka
Jan 2022 - April 2022

Developed end-to-end AI-powered exam proctoring systems combining computer vision, NLP, and full-stack web development. Collaborated with data scientists to deploy production-ready ML models as scalable microservices.

 - **Built** real-time cheat detection models using TensorFlow and OpenCV, improving proctoring accuracy by 15%
 - **Implemented** NLP pipelines for automated grading of subjective responses using BERT-based text classification
 - **Developed** dynamic Angular/TypeScript web applications integrating AI-powered features with RESTful APIs
 - **Optimized** PostgreSQL database queries and schemas, reducing query execution time by 15% for 10K+ concurrent users

AI AND ML PROJECTS

- **AiBuddy - AI-Powered Learning Management Platform (GitHub)**

Aug 2024 - Oct 2024

 - **Architected** production-grade Flutter mobile application for coaching institutes with AI-driven student management, personalized learning assistance, and comprehensive progress tracking serving 5 distinct user roles
 - **Integrated** Google Gemini AI to provide role-based personalized assistants: AI Study Help for students, AI Teaching Assistant for tutors, and safe filtered AI Q&A for guardians
 - **Implemented** sophisticated Role-Based Access Control (RBAC) system with 60+ granular permissions ensuring enterprise-grade security and complete data isolation across institutes
 - **Built** offline-first architecture using Drift (SQLite) with background sync, achieving 60-120fps liquid-glass UI animations and seamless user experience
 - **Designed** comprehensive analytics dashboards with AI-generated progress summaries, automated assessment tracking, and smart learning path recommendations
 - **Deployed** Firebase backend with Firestore security rules, authentication, and cloud functions handling 1000+ concurrent users
 - **Features:** Multi-institute support, batch management, AI learning assistant, progress tracking, guardian monitoring, bulk notifications, timeline visualization
 - **Tech Stack:** Flutter (Dart), Firebase (Firestore/Auth/Storage), Google Gemini AI, Drift (SQLite), Provider, Clean Architecture, MVVM
 - **Impact:** Reduces administrative overhead by 40%, enables 24/7 AI tutoring support, provides parents safe monitoring capabilities
- **Personal Portfolio - Interactive Photography Showcase (Live Site)**

Sept 2024

 - **Designed** an immersive full-stack portfolio website showcasing nature photography with scroll-triggered animations, parallax effects, and responsive design achieving **95+ Lighthouse score** through fluid typography, lazy-loaded high-resolution images, and minimalist navigation using **HTML5, CSS3 (Flexbox/Grid)**, and **JavaScript (ES6+)**.
 - **Optimized** image delivery pipeline with **WebP format**, CDN integration, and progressive loading for sub-2-second page load times, featuring landscape photography with cosmic formations, symmetrical reflections, and intricate natural patterns embodying "Serenity through nature's lens."

CONTINUOUS LEARNING & DEVELOPMENT

- **Active Pursuits:** AWS Machine Learning Specialty, LangChain for LLM Development, MLOps with Docker/Kubernetes
- **Current Focus:** Building RAG-based document Q&A systems, experimenting with LLM fine-tuning (Llama 3.1), and vector database implementations
- **Technical Writing:** Planning technical blog series on AI/ML topics and QA-to-AI career transition strategies

CORE COMPETENCIES

- Problem-Solving & Analytical Thinking
 - Cross-functional Team Collaboration
 - Technical Communication
 - Agile/Scrum Methodologies
- Rapid Technology Adoption
 - Strategic Time Management
 - Resilience Under Pressure
 - Continuous Self-Learning