

Nirav Patel

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EXPERIENCE

White Collar Technologies

Aug 2024 – Current

Computer Systems Analyst

- Led the implementation and enhancement of various GxP systems, driving requirements gathering, system configuration, validation planning (IQ/OQ/PQ), and user acceptance testing to ensure compliant deployment and seamless integration into the regulated environment.
- Led IT support and management for GxP systems, eg. Empower, Openlab and other Laboratory information management systems, ensuring system reliability and regulatory compliance.
- Managed key phases of the computerized system lifecycle for Empower, including requirements gathering, configuration support, validation documentation (IQ/OQ/PQ), user acceptance testing (UAT), and post-implementation production support.
- Partnered closely with Manufacturing, Quality, and Process Automation (PA) stakeholders to align system capabilities with operational priorities, supporting compliant data workflows, equipment connectivity, and manufacturing data integrity initiatives.
- Authored and maintained Standard Operating Procedures (SOPs) governing system administration, instrument integration, user access controls, and compliance processes to ensure continuous adherence to GxP and FDA regulatory requirements.
- Executed change control activities related to system upgrades, configuration updates, patches, and infrastructure modifications, performing impact assessments and maintaining documentation to preserve validated system state.
- Supported regulated laboratory computing environments, including instrument connectivity, workstation qualification, and software configuration to ensure systems operated in a validated, secure, and GMP-compliant state.
- Maintained system compliance and cybersecurity standards through role-based access management, periodic access reviews, audit trail monitoring, backup verification, and enforcement of data integrity best practices.

Bright Mind

July 2023 – Aug2024

Software Engineer

- Partnered with technical and managerial stakeholders to analyze enterprise application enhancement needs, perform gap analysis, and design scalable solutions that improved system usability and operational efficiency across client-facing platforms.
- Produced detailed SDLC artifacts including Use Cases, Process Flow Diagrams, Functional Requirement Specifications, and Solution Design Documents, translating business logic into structured technical workflows that streamlined development cycles and reduced rework during implementation.
- Designed and developed responsive user interfaces using React.js, implementing reusable components, state management, and optimized rendering techniques, which reduced page load times by 25% and improved overall application performance by 15%
- Optimized backend data handling using Firebase DataStore by refining query structures, indexing strategies, and asynchronous data retrieval methods, reducing response times by 25% and improving data consistency across integrated modules.
- Collaborated with architects, DBAs, and developers to implement configuration updates, API integrations, and database enhancements, resolving production defects and delivering new features; led User Acceptance Testing (UAT) with business users to validate functionality and ensure successful, stable production deployments.

Sigma Solve Inc.

July 2020 – Aug 2021

Software Development Engineer

- Accomplished a 200% reduction in client social media posting time by creating a multi-platform content publishing tool and integrating lead capturing webhook capabilities
- Collaborated with a cross-functional team to enhance client efficiency by 200%, gauged by client feedback, improved posting times, and a 100% increase in lead generation through captured leads.
- Supported a threefold user base increase by leveraging React, Node.js, SQL, MongoDB, Django, and Python for development, as evident through user registrations and system metrics

VEStellaLab Inc.

June 2020 – July 2020

Software Engineer Intern

- Implemented client facing app using various technologies including HTML, CSS, Solidity, Web3.JS,

- Node.js, Truffle, Metamask, Remix
- Designed a framework for agricultural food supply chain, leading to 20% more purchase power for agro-resources

EDUCATION

Stevens Institute of Technology **May 2023**
Master of Science in Computer Science

Institute of Technology, Nirma University **May 2021**
Bachelor of Engineering in Computer Science

TECHNICAL SKILLS

Empower, OpenLab, iLab, Veeva Vault DMS, Valgenesis, Trackwise
Windows, OS, Networking, Firewall, Active Directory, Azure, AWS, GCP
Impact/Risk Assessment, Periodic Review Reports, Validation Plans, User, Requirements Specification (URS), Design and Configuration Specification (DCS), Validation Protocol (IQ, OQ, PQ), RTM, Deviation Reports, Summary Reports, SOPs, SQL, JavaScript, HTML, CSS, Python, React.js, Node.js, MongoDB, Git

PUBLICATION / RESEARCH WORK

Conference Proceedings | Peer-reviewed International Journal Publications

- Nirav Patel** "GiNA: A Blockchain-based Gaming scheme towards Ethereum 2.0" IEEE ICC'21 - CQRM Symposium 2021
- Nirav Patel** "BDoTs: Blockchain-based Evaluation Scheme for Online Teaching under COVID-19 Environment"
- Nirav Patel** "KRanTi: Blockchain-based Farmer's Credit Scheme for Agriculture-Food Supply Chain"