

Jeel Patel

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Full-stack Software Engineer specializing in System Design, Architecture and full-cycle development using modern tech stack.

EXPERIENCE

Software Engineer - QIQMSB Inc. | Northridge, CA

Sep 2024 - Present

Restaurant Point-of-Sale System Project

- Faced with frequent internet outages that halted restaurant transactions, I designed and implemented a hybrid POS architecture with offline-first and WiFi-LAN sync across 6+ devices—ensuring uninterrupted operations and zero downtime during internet disruptions.
- Engineered a full-featured React Native POS application with custom Kotlin and Java modules for seamless thermal-printer integration and peripheral connectivity over IP, USB, and serial interfaces—reducing hardware setup errors by 20%.
- Developed a conflict-resilient SQLite synchronization engine, achieving sub-second round-trip sync across multiple devices in a local network environment, improving data consistency by 99%.
- Developed and integrated a custom payment module using Datacap's DC Direct API, processing thousands of daily card transactions.
- Enhanced performance by eliminating unnecessary re-renders using the WhyDidYouRender module, resulting in a smoother experience.
- Proactively monitored device memory consumption through ADB commands, Chrome DevTools heap analysis, and element tree inspections to identify and resolve inefficiencies.
- Optimized thread management and implemented robust strategies to eliminate potential memory leaks, ensuring long-term stability and reliability of the application.
- Implemented comprehensive restaurant management features like menu configuration, reporting systems, discounting—reducing order-reconciliation time by 50% and cutting operational overhead.

Internal Management Software and Sales Admin Website Project

- Spearheaded a comprehensive overhaul of the customer-facing Admin site—used by over 200 daily active users—to streamline sales-data reporting and management through intuitive UX enhancements and reports automation, reducing report generation time by 40%. Developed and rolled out modular, feedback-driven features that provided customizable analytics tools to address customer needs.
- Revamped internal management software using ASP .NET C#, TailWind CSS, JavaScript, jQuery, and SQL, significantly improving system usability, User Interface and efficiency for users.
- Automated report generation—reducing manual efforts by 30%, eliminating human errors, and boosting management productivity by 20% requiring less time on reporting.
- Designed and implemented a sub-contract system, ticket management, inventory tracking and document management features-enabling a unified platform for all management needs and streamlining operational workflows.

Web Developer Intern - Orbanni LLC | Northridge, CA

May 2024 - Sep 2024

- Led a complete overhaul of the company's web presence - revamping the Shopify storefront with interactive UI elements, strengthening site security, and streamlining content management - which boosted user engagement by 40% and reduced page load times by 25%.
- Developed a scalable React.js/Tailwind CSS/Firebase blog platform and automated targeted SMS campaigns via Twilio API and Python scripts to refine customer data - accelerating content publishing by 50% and increasing marketing engagement rates by 30%.

Associate Software Engineer - ARCS CSUN | Northridge, CA

Jun 2023 - Jan 2024

- Collaborated with an Agile cross-functional team to architect and develop a React Native mobile app for athletes - integrating Firebase Authentication, Firestore database services, and a thoughtfully designed schema with robust error handling - which ensured 99.9% uptime and accelerated data synchronization by 30%.
- Implemented key UI components and streamlined state management using Redux and LocalStorage, reducing data load times by 25% and boosting user engagement through a snappier, more reliable experience.

EDUCATION

Master of Science in Software Engineering - California State University Northridge | Northridge, CA

Jan 2022 - May 2024

Relevant Coursework: Object Oriented Software Development, Software Engineering Management, Advanced Web Engineering, Software Requirements, Software Verification and Validation, Machine Learning, Data Mining

GPA: 3.9 / 4.0

Bachelor of Engineering in Information Technology - Silver Oak College | Gujarat, India

Jul 2017 - Jul 2021

Relevant Coursework: Data Structures, Operating System, Computer Networks, Analysis and Design of Algorithms, Database Management System, Web Development, Java Programming

GPA: 3.4 / 4.0

SKILLS & INTERESTS

Programming Languages: TypeScript, JavaScript, Python, C#, Java, C/C++

Frameworks/Libraries: React js, Next js, Node js, Express js, React Native, GraphQL, Puppeteer, TailWind, Jest, .NET

Database: MongoDB, MySQL, Firebase, Redis, SQL/SQLite, PostgreSQL

Cloud & DevOps: AWS, Docker, Git Version Control, GitHub, Jenkins

Interests: Hiking, Cooking, Automation Scripts, Artificial Intelligence, Soccer, Virtual Reality Gaming

PROJECTS

Name Generator AI

- Built an asynchronous web-scraping pipeline with BeautifulSoup and AsyncIO to curate a diverse, global name dataset.
- Developed and trained a deep-learning LSTM name generator in PyTorch and NumPy, achieving 90% accuracy in human evaluations and enabling real-time, culturally relevant suggestions.
- Engineered a Flask web interface and deployed the application on AWS EC2 Linux, delivering sub-200 ms response times and maintaining 99.9% uptime for seamless user access.

Real-time Chat App

- Led the development of a real-time multilingual chat application using React.js, Socket.io, Node.js, Express.js, and MongoDB - integrating on-the-fly translation via the LibreTranslate API, which resulted in 35% increase in user engagement.
- Established a comprehensive Jest testing suite for unit and integration tests, raising code coverage to 90% and reducing production bugs by 60%, ensuring a robust, reliable user experience.