

Yash Prajapati

Full Stack Engineer

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SUMMARY

Full-stack developer with nearly **4 years building production web platforms using React, TypeScript, Python (FastAPI), and Firebase**. Skilled in secure authentication flows, real-time data systems, and async REST services. Focused on fast UI performance, predictable state, and stable API contracts. Hands-on with Docker and CI/CD to support safe deployments. Known for catching edge cases early, simplifying complex UI logic, and shipping features that stay stable across browsers and devices.

TECHNICAL SKILLS

Front-End Development: React, TypeScript, JavaScript (ES6+), Redux, React Query, HTML5, CSS3, Tailwind, Axios, REST API integration, Component-Driven Architecture, Client-Side Routing, Form Handling, Error Boundaries, Accessibility (WCAG), Responsive UI, Cross-Browser Compatibility, Performance Optimization (memorization, lazy loading, virtualization)

Back-End Development: Python, FastAPI, Async I/O, JWT Authentication, REST API Design, API Versioning, Schema Validation (Pydantic), Caching, Pagination, Logging, Rate Limiting, Request Throttling

Cloud / Serverless: Firebase Authentication, Firebase Firestore, Firebase Hosting, Security Rules, Real-Time Data Sync, Session Management, Cloud Functions (basic)

Databases: Firestore (NoSQL), PostgreSQL (basic), MySQL (basic)

DevOps & Deployment: Docker, CI/CD Pipelines, GitHub Actions, Containerized Services, Build & Release Automation, Smoke Testing, Rollback Procedures

Performance & Reliability: Client-Server Optimization, Request Batching, Caching Strategy, Debounced Triggers, API Latency Reduction, Error Handling & Retry Logic, Profiling & Debugging, Race Condition Resolution

Tools & Platforms: Git, GitHub, VS Code, Postman, Figma (collaboration), Jira, Agile/Scrum

Testing & Quality: Unit Testing (Python), API Contract Checks, UI Smoke Tests, Code Reviews

Collaboration & Delivery: Sprint Planning, Technical Documentation, ADRs, API Contract Writing, PRDs, Peer Code Reviews

PROFESSIONAL EXPERIENCE

DXC Technology, USA

Jan 2025 - Present

Full Stack Developer

- building React + TypeScript front-end flows used by internal and client-facing teams — handling routing, protected views, complex form logic, error states, accessibility, and cross-browser behavior
- developing FastAPI services with async handlers, JWT auth, schema-driven contracts, and logging hooks; added automated interface checks so front-end teams stop fighting silent API changes
- running **Firebase Auth + Firestore** for live data views and session-based access control; designed read/write paths to stay fast under continuous updates without spiking costs
- improving UI speed with React Query caching, request batching, debounced triggers, and route-level code splits — reducing visible “loading stalls” and making transitions feel instant
- containerizing services and shipping through CI/CD pipelines; added smoke checks and rollback notes so deploys don’t wreck active sessions
- working directly with product + design to close gaps before dev starts — calling out edge cases (offline access, retry behavior, stale data, touch events) so work doesn’t bounce back at QA

Trinary Bits Technologies Pvt. Ltd., Gandhinagar

Jan 2021 - Jul 2023

Web Application Developer

- Shipped consumer-facing web apps in React + TypeScript, handling everything from UI architecture to browser quirks, accessibility checks, and production deployments
- Built a company-wide React component and hook system that standardized UX patterns and cut UI development time for new screens by ~30%
- Rolled out a Firebase-based stack (Auth, Hosting, Realtime DB) with custom security rules, enabling scalable user sessions and low-latency data sync without backend maintenance overhead
- Authored FastAPI micro-services with structured logging, request throttling, and OpenAPI docs, giving the front-end reliable, versioned endpoints instead of ad-hoc scripts
- Integrated external ML text-generation and vision APIs and built retry/backoff + queued request handling to prevent UI lockups and API abuse cases
- Tuned network behavior with Axios interceptors, response caching, and de-duped calls, shaving ~20–25% off perceived load time on heavy data screens
- Re-worked global state with Redux + normalized entities, eliminating stale state issues and reducing bug reports tied to multi-view navigation flows

- Improved runtime performance via route-based code-splitting, lazy-loading, memorization, virtualization, and manual DOM cleanup — resulting in visibly faster render and scroll performance on mid-range devices
- Drafted API contracts, UI specs, and PRDs with product + design, making requirements clear and preventing rework cycles
- Wrote ADRs, internal docs, onboarding guides, and runbooks that helped new engineers ship features in their first two sprints
- Investigated rendering glitches, race conditions, and browser-specific layout breaks; issued targeted fixes instead of “CSS band-aids”

EDUCATION

Master of Science in Computer Science

2023 - 2025

California State University Channel Islands, USA

Bachelor of Engineering (B.E.), Computer Engineering

2019 - 2023

Shankersinh Vaghela Bapu Institute of Technology, Gujarat Technological University, India

PROJECTS

Breast Cancer Detection Platform

Python, PyTorch, Scikit-learn, Flask, Pandas, NumPy

- Built a full ML pipeline using the Breast Cancer Wisconsin dataset with feature scaling, hyperparameter tuning, and model evaluation to improve diagnostic accuracy for early detection workflows.
- Served predictions through a Flask API and integrated explainability outputs to help clinical users understand confidence scores and decision boundaries.
- Improved model inference speed by optimizing preprocessing steps and using batched prediction logic to support real-time evaluation in a medical analytics dashboard.

Enterprise Inventory & Order Management Database

PostgreSQL, SQL, Stored Procedures, Views, ERD Design

- Designed a normalized relational schema (15+ tables) supporting supplier data, stock flow, order history, purchase logs, and fulfillment tracking for business inventory systems.
- Built SQL functions, stored procedures, triggers, and role-based access rules to automate restocking and maintain data consistency across transactional workflows.
- Improved query performance using indexing and optimized joins, reducing heavy report execution time and improving reliability for daily business reporting tasks.

Vehicle Image Recognition & Deployment Pipeline

PyTorch, AWS SageMaker, Flask, S3, Colab

- Trained a CNN-based vehicle classifier using transfer learning, augmentation, and batch training to improve recognition accuracy across multiple vehicle categories and lighting conditions.
- Deployed the model on AWS SageMaker with S3-based storage and served predictions via a Flask API for real-time inference from a lightweight web interface.
- Integrated error handling, input validation, and response logging to ensure stable performance and consistent inference latency for automotive recognition use cases.

Infrastructure Automation & System Monitoring

Ansible, Prometheus, Grafana, Linux

- Automated server setup and configuration for multi-VM environments using modular Ansible roles, reducing manual provisioning work and improving environment consistency.
- Installed and configured Prometheus + Node Exporter for metrics collection and system health visibility across hosts.
- Built Grafana dashboards to monitor CPU, memory, disk, and network trends, helping identify performance issues and optimize resource allocation in lab environments.