

Dhruv Patel

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EXPERIENCE

Eden (formerly CareWallet) Software Engineer

New York, USA
Sept 2024 - Dec 2024

- Developed RESTful APIs with Node.js, DynamoDB, and React, cutting patient-doctor admin tasks by 60%.
- Implemented a CI/CD pipeline with GitHub Actions, AWS Lambda, API Gateway, and CloudWatch, automating deployments to reduce time by 70% and enhance reliability by streamlining workflows.
- Developed 10+ dynamic pages using React and Next.js, reducing load time by 30% and improving development efficiency by 40% through reusable components and optimized rendering

Actonate Solutions Software Development Engineer

Vadodara, India
Dec 2021 - Dec 2022

- Designed and integrated key components of Warehouse Management System using TypeScript within an agile development framework, enabling a 26% increase in goods processing speed.
- Implemented internationalization for an e-commerce platform using TypeScript and managed multilingual content with MySQL, expanding accessibility to 175+ million users.
- Integrated multi-factor authentication (MFA) apps to implement two-factor authentication (2FA), improving account security for over 7000+ users and reducing unauthorized access incidents by 40%.
- Enhanced system performance by 25% through migration from Astro to Next, resulting in a 30% faster page load speed.
- Developed and integrated a Learning Management System (LMS) with over 30+ interactive modules and step-by-step guides, improving device usability by 80%.

Redink Edtech Solutions Software Engineer

Chennai, India
Dec 2020 - April 2021

- Built a React-based teacher dashboard for a multi-tenant web app, enabling real-time tracking of 12,000+ students grades, attendance, and performance metrics across 8+ schools, improving reporting efficiency by 30%.
- Orchestrated the development of a grading system using Node.js and ReactJS, enabling personalized feedback on submissions, boosting grading efficiency by 30% and reducing grading time by 20%.
- Engineered an assessment system comprising a React web app and a React Native cross-platform mobile app, enabling students to take online exams with diverse question types, supporting 100+ exams and boosting platform activity by 25%.

PROJECTS

Kanbas LMS (Canvas Replica)

- Created a Canvas-inspired LMS with 10+ features using the MERN stack (MongoDB, Express, React, Node.js) and deployed on AWS for scalability.
- Deployed a real-time discussion and grading system using WebSockets and MongoDB, enabling instant feedback between students and instructors.

Multi-Service Counseling Appointment Platform

- Spearheaded the development of a full-stack counseling platform using Next.js, TypeScript, Node.js, and PostgreSQL, facilitating 1,000+ seamless user bookings across 5+ counseling categories.
- Devised ML-based recommendations with 87% accuracy, increasing match relevance by 63% and boosting user engagement by 30%

Parking Management System

- Engineered a Parking Management System using Python and MySQL, featuring a scalable database supporting 3,000+ users and enabling real-time parking reservations and occupancy tracking.
- Constructed an intuitive admin panel for parking owners to set dynamic pricing, manage bookings, and optimize space utilization, improving operational efficiency by 60% and simplifying parking lot administration.

Image Processing Application (Image Manipulation)

- Architected a versatile Image Manipulation and Enhancement app following MVC architecture, offering features like image visualization, flipping, brightness adjustment, channel manipulation, and enhancements.
- Delivered an accessible application with a user-friendly GUI and a text-based scripting interface. Implemented batch processing and undo/redo functionalities, leading to a significant 40% time-saving for repetitive tasks.

SKILLS

Languages: Typescript, JavaScript, HTML, CSS, XML, Python, Java.
Frontend: React.js, React Native, Next.js, Vite.js, Redux (State Management), Tailwind, Bootstrap.
Backend: Node.js, Express.js, LoopBack, Flask, FastAPI, GraphQL, REST API.
Databases: MySQL, PostgreSQL, MongoDB, DynamoDB, Elasticsearch, Redis.
Version Control: Git, Github, Bitbucket, GitLab.
Cloud and DevOps: AWS (EC2, S3, Lambda), Kubernetes, Docker, GitHub CI/CD.

EDUCATION

Northeastern University

Master of Science in Computer Science; GPA: 3.86
Courses: Programming Design Paradigm, Algorithms, Web Development, Database Management System

Boston, MA
Jan 2023 - May 2025

Gujarat Technological University

Bachelors of Engineering - Information Technology; GPA: 4.0
Courses: Data Structures, Analysis and Design of Algorithms, Web Technology, Software Engineering

Ahmedabad, India
Aug 2017 - July 2021