

JAYESH PATEL

Waterloo, Canada

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EDUCATION

University of Waterloo

Master of Electrical and Computer Engineering **Grade: 93.4/100**

May. 2022 – Aug. 2023

Waterloo, ON, Canada

Goa University

Bachelor of Engineering in Electronics and Telecommunications **Grade: 81.4/100**

Jul. 2016 – Nov. 2020

Panaji, GA, India

TECHNICAL SKILLS

Languages: Python, Java, C, HTML/CSS, JavaScript, TypeScript, SQL, Bash

Technologies/Frameworks: React, Redux, NextJs, NodeJS, Vue, EmberJs, ExpressJs, Flask, FastAPI, GraphQL, Jest, AWS, Redis

Tools: Git, Github, Docker, Postman, Swagger API, Jenkins, PGAdmin, VS Code

General Skills: Object Oriented Design (OOPS), Algorithms, Data Structures, Problem Solving, Brainstorming, CI/CD

PROFESSIONAL EXPERIENCE

Hash Cookies

Sep 2020 – Oct 2021

Software Engineer

Goa, India

- Developed and maintained web applications using front-end frameworks such as React, Vue, EmberJS, and back-end technologies such as Flask and Express to build web servers and APIs.
- Built RESTful and GraphQL APIs, catering to diverse client needs and ensuring seamless data communication and integration.
- Leveraged a range of public cloud services, including AWS EC2, Lambda, DynamoDB, and ECS, to deploy and scale applications effectively, optimizing performance and resource management.
- Applied strong proficiency in data structures, algorithms, and object-oriented design to deliver high-quality solutions, contributing to a 40% improvement in overall system performance.
- Utilized agile development methodologies to manage project scope and deliver high-quality software on time, resulting in a 30% increase in project efficiency.

Invints Infotech LLP

Jan 2019 – Aug 2020

MERN Stack Developer

Surat, Gujrat

- Developed and launched an E-commerce website using the MERN stack, resulting in a 30% increase in online sales within the first month of deployment.
- Implemented a custom shopping cart functionality with real-time updates using web sockets, leading to a 20% decrease in cart abandonment rate and increased customer engagement.
- Engineered CI/CD pipelines with Jenkins and test automation frameworks using Cypress, streamlining software releases and ensuring high-quality deliverables.
- Pioneered an automated inventory synchronization system, reducing manual inventory management efforts by 80 hours per month, allowing the team to focus on other critical tasks and increasing overall productivity.

PROJECTS

PromptShare | *Javascript, NextJs, MongoDB, Mongoose, TailwindCSS* [🔗](#)

March 2023

- Leveraged Next.js's built-in SSR capabilities to generate dynamic HTML on the server side, improving initial page load times and SEO performance.
- Additionally, developed API endpoints in the PromptShare application using the latest Next.js version (v13.4) and its new server actions feature, ensuring efficient server-side rendering and providing robust API functionality.
- Designed and implemented the database schema using MongoDB, ensuring efficient data storage and retrieval.

Inventory and Payment Microservice App | *Python, FastAPI, Redis, RedisJSON, Redis Streams, React* [🔗](#)

April 2022

- Developed a straightforward Microservices application using Python FastAPI for seamless and efficient backend functionality, complemented by a React frontend for a dynamic user experience.
- Employed RedisJSON as the NoSQL database, leveraging MongoDB-like capabilities to store and manage data with flexibility and scalability.
- Utilized Redis Streams as the Event Bus to dispatch events, providing reliable event communication and ensuring smooth data flow and real-time updates throughout the application.

Web Chat Application | *Javascript, React, Redux, ExpressJs, TailwindCss, Socket.IO* [🔗](#)

Jan 2021

- Implemented E2E encryption using industry-standard encryption techniques to secure user communications resulting in a 99% success rate of secure communications.
- Managed the overall state management of the application using Redux, resulting in a 20% improvement in performance.
- Used Socket.IO to enable real-time communication and updates between client and server resulting in a 25% reduction in latency.

ACHIEVEMENTS

- Contributed to the popular 33 Concepts Every JavaScript Developer Should Know [🔗](#) GitHub repository with 55k stars by adding valuable insights and code examples to enhance the learning experience.
- Published research paper titled Fake News Detection with Machine Learning [🔗](#) in the International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-10Issue-1, November 2020.