HITANSHU SHAH

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PROFESSIONAL SUMMARY

AWS Certified Cloud Practitioner and Full Stack Developer with 3+ years of experience building scalable SaaS platforms, Web applications, secure APIs, and microservices. Skilled at optimizing databases, improving system performance, and leading teams through mentorship and code reviews to deliver reliable, high-performance solutions.

WORK EXPERIENCE

Sagacity Software, *Software Developer*   **March 2024 – Present**

Tech Stack: Next.js, Nuxt.js, Nest.js, Tailwind, PostgreSQL, Docker, AWS, Caddy, PHP (Laravel)
- Designed and developed a multi-client system, improving product access and processing time by 20%.
- Used Docker for containerization and AWS for efficient storage and fast content delivery, reducing load times by 40% across microservices.
- Built scalable microservices and interactive UIs using Tailwind, Next.js, Nuxt.js, and Vue.
- Architected backend systems using TypeScript and Nest.js for building scalable RESTful APIs.
- Pioneered a React and PHP based middleware that intercepted legacy system calls and converted them into modern RESTful API requests, increasing system uptime by 11%.
- Used Caddy as route manager ensuring smooth communication between microservices.
- Maintained and optimized PostgreSQL databases for performance and scalability.
- Mentored 5+ co-ops and junior developers, helped troubleshoot issues, and conducted code reviews.
- Streamlined development and deployment pipelines, improving delivery time by 30% and reducing bouncebacks.

Tata Consultancy Services*, Systems Engineer*   **June 2021 – June 2022**

Tech Stack: Machine Learning, MongoDB, Python
- Led a project to add dynamic interest rate updates based on tenure selection using machine learning algorithms.
- Integrated Python with predictive modeling to display real-time changes, which resulted in a 10% reduction in the overall process of mortgage selection.
- Improved a production architecture by indexing the database and eliminating redundant requests.
- Improved page speed by half following MVC design to show requests from users optimizing *MongoDB* queries.

Tech Truffle Technologies, *Full Stack Developer*   **Aug 2019 – March 2020**

Tech Stack: Java, Spring Boot, MySQL, Angular
- Implemented a review system for an e-commerce site using MySQL and Java for backend APIs.
- Fetch and display customer reviews on product pages using Angular and SQL queries.
- Improved user engagement, resulting in a 20% increase in submitted product reviews.
- Developed a dynamic form that sends data via a REST API using Spring Boot and sends emails upon submission.
- Reduced response time to customer inquiries by 2 days by streamlining form submission, notification processes.

PROJECTS
My projects: https://hitanshushah.projectsboard.live

Projects Board *(Vue, Laravel, Inertia, PostgeSQL, Minio):*
        Live url: https://projectsboard.live/

- Developed a project management system used by 30+ active users to showcase their work with admin interface.
- Integrated Authentik as the OAuth2 layer across all projects to control secure access to the admin panel.
- Admin panel allows authenticated users to create and manage projects, enter details, assets, and external links.
- Implemented category and tag linking for each project to enable better grouping, filtering, and discoverability.
- Users can publish projects, which appear on their personalized domain URL that can be shared publicly.
- Created a community feature where users can set permissions on their projects and choose whether to share them publicly. It allows users to search, and explore portfolios of other users based on shared categories and tags.

Design Pad - Template Builder *(React, Fastify, Postgres, Minio, Typescript, Authentik):*
      Live url: https://designpad.demo.hitanshushah.com/

- Inspired by Email Builder from usewaypoint, I developed an interface used by my current company and 20+ other users to build, customize, and manage templates and versions using Authentik (OAuth2) for authentication.
- Supports simple blocks creation that can be styled and customized using a built in customization panel.
- Includes live preview for both mobile and desktop views and allows users to send test emails for testing.
- Implemented version control using MinIO, enabling users to save and modify previous versions of templates.
- Introduced a demo mode allowing unauthenticated users to explore features and build templates, with session data resetting every 15 minutes.
- Added an interactive guided tour that walks users through core features; it can be enabled or disabled anytime from the interface.

Emotional Health Detection System *(BERT Transformer, ML, NLP):*

- Developed a chatbot system predicting and responding to user mood with 92% accuracy.
- Generated detailed weekly emotion reports for users.
- Trained BERT Transformer model on 80,000 user interaction dataset.
- Integrated Natural Language Processing with pattern matching to detect emotions from user input.
- Launched a personalized remedy suggestion engine leveraging emotional AI, offered tailored playlists and recommendations based on detected mood, and onboarded 10 users to test the feature.

Online Monopoly Banking System *(Nuxt.js, MySQL, TypeScript, Pinia):*
      Live url: https://monopoly.game.hitanshushah.com/

- Developed a digital banking system simulating Monopoly's financial transactions and property management.
- Enabled player account management, property buying/selling, rent payments, and fund tracking.
- Implemented real-time state management with Pinia for smooth gameplay experience.
- Designed scalable database schema in MySQL to track players, properties, and transactions.
- Created interactive UI for dynamic game updates and seamless user interactions.

TECHNICAL SKILLS
- **Frontend:** React, Angular, Vue, Tailwind, JavaScript, TypeScript, Nuxt.js, Next.js.
- **Backend:** Nestjs, Laravel, Fastify, Spring Boot.
- **Languages:** Python, Java, PHP, C, C++
- **Database:** MySQL, PostgreSQL, MongoDB.
- **Tools:** Docker, Caddy, AWS, Nginx.

EDUCATION

Western University, Canada - Master's in Computer Science   **August 2022 - December 2023**
CGPA - 3.9/4.0

Mumbai University, India - Bachelor's in Information Technology   **June 2017 - May 2021**
CGPA - 9.03/10

PUBLICATIONS

Presented Paper in 2021 IEEE Asian Conference on Innovation in Technology, 4th October, 2021.
"EDRA – An Emotion Health Detection and Recognition Assistant", ISBN**:** 978-1-7281-8403-6

CERTIFICATION

- AWS Cloud Practitioner