

# HITANSHU SHAH

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## SUMMARY

AWS certified Software Developer with 5+ years of experience building scalable full stack applications with proven record in migrating projects to containerized services, improving scalability and deployment reliability. Experienced in managing production grade infrastructure with focus on performance optimization, system availability and mentoring peers effectively.

## EXPERIENCE

### Lynked Inc - Software Developer

Mar 2024 – Present

- Leading the migration of monolithic **React/Laravel** applications to **Kubernetes** orchestrated **Dockerized microservices**, improving deployment frequency and maintaining **production** uptime to **99.9%**.
- Managed **AWS** infrastructure (**EC2, S3, CloudFront, Route53**), reducing page load time from **4s to 2s**.
- Implemented **Redis** caching layer to reduce database load and improve backend response latency under peak traffic.
- Engineered and deployed **5+ scalable microservices** using **Next.js, Nuxt, Vue, and TypeScript**, improving API response times and reducing frontend bundle sizes by **35%**.
- Led **Python** based **Odoo** migration, reducing manual data entry by **60%** for internal users.
- Built a smart request routing proxy in **Go (Golang)** and **Nest.js** supporting **1,000+** concurrent users under peak load and improving routing efficiency across distributed services.
- Optimized **PostgreSQL** queries through indexing and query refactoring, reducing average query execution time by **15%** across distributed services.
- **Mentored 4 junior developers** through structured code reviews, architectural guidance, and **coding** best practices, reducing onboarding time and improving **code quality** consistency.
- Architected **Django** based **Support** platform to manage multi-tenant databases with role-based access control (RBAC), reducing ticket resolution time by eliminating developer intervention.
- Owned end to end delivery of **Single Sign-On (SSO)** solution using **Authelia** and **oauth2-proxy** for multi-domain authentication, replacing legacy authentication systems.
- Used **Sentry** for monitoring and distributed error tracking, **Prometheus** for metrics collection and alerting and **Grafana** for real-time performance dashboards and resource utilization.
- Created unit tests using **Jest** and integration tests using **Playwright** with automated CI pipelines, increasing code reliability and reducing regression issues by **30%** during deployments.

### Tata Consultancy Services - Systems Engineer

Jun 2021 – Jun 2022

- Enhanced mortgage processing platform using **Java** and **Angular**, enabling real time pricing updates and improving operational efficiency by **10%**.
- Led a 4 month feature optimization project, developing reusable components and **MySQL queries** to support dynamic deal filtering, reducing system errors by **30%**.
- Built scalable **REST APIs** using **Spring Boot**, supporting **2M+** daily document transactions with optimized **MySQL** indexing and schema design.
- Improved code reliability by implementing **JUnit testing, Git version control**, and clean coding best practices, reducing post deployment issues and maintenance overhead.

### Tech Truffle Technologies - Full Stack Developer

Aug 2019 – May 2021

- Built a real time review platform using **React** and **Python** serving **2500+** users with live updates, efficient state management, improving frontend load time by **30%**.
- Enhanced **MongoDB** performance by restructuring collections and implementing optimized **indexing** strategies, reducing query execution time and improving system efficiency under heavy production traffic.
- Designed and implemented **RESTful APIs** and reusable service layers following **MVC** architecture and clean code principles, improving maintainability and accelerating feature development cycles.

## PROJECTS

### Webb Style - Website Builder (*Nuxt, Vue, GoLang, Caddy, PostgreSQL, Minio*): <https://webbstyle.com>

- Designed multi tenant architecture for creating portfolio websites with customizable templates and color schemes.
- Engineered domain management with subdomain creation and custom domain integration using API keys.
- Created **Go** middleware for domain validation and automated SSL provisioning using **Caddy On-Demand TLS**.
- Implemented Authnetik SSO for seamless user authentication, supporting **30+** active users, with **10** pro users.

**AI Resume Generator** (*Next.js, Django, Python, Ollama, PostgreSQL*): <https://resumegenerator.live/>

- Engineered AI based resume optimizer using **Ollama LLM** to refactor resumes to job descriptions in real time.
- Implemented prompt engineering and context window optimization for improved LLM response quality.
- Developed **Django** backend and middleware to handle AI communication, authentication, and template storage.
- Designed stateless JWT based authentication and rate-limiting for demo mode, receiving 100+ requests each day.

**Projects Board** (*Vue, Laravel, Inertia, PostgreSQL, Minio*): <https://projectsboard.live/>

- Developed a Project Management platform, enabling users to create, edit, and manage projects in a central location.
- Implemented dynamic creation of multiple tags and categories per user using **Laravel** polymorphic relationships.
- Developed custom subdomain URL to serve projects that can be public or private using visibility controls.
- Integrated **MinIO** to securely store and manage user project assets, enabling efficient file handling and retrieval.

## TECHNICAL SKILLS

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**Programming:** Python, TypeScript, Go, Java, JavaScript, PHP

**Frontend:** React.js, Next.js, Vue.js, Nuxt, Angular, Tailwind CSS

**Backend:** Django, Nest.js, Laravel, Fastify, Spring Boot, Node.js

**Databases:** PostgreSQL, MySQL, MongoDB, NoSQL

**Cloud & DevOps:** Kubernetes, Docker, AWS EC2, AWS S3, AWS CloudFront, AWS Lambda, AWS Route53, CI/CD

**Platforms & Tools:** Odoo, MinIO, Ollama, Authelia, Authentik, Keycloak, Git

**Caching & Performance:** Redis

**Testing & Quality:** SonarQube, JUnit, Playwright, Jest

**Monitoring & Analytics:** Sentry, Grafana, Prometheus, Google Analytics, Plausible, Portainer

## EDUCATION

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**Western University, Ontario, Canada** - Master's in Computer Science, **CGPA - 3.9/4.0**

Specialization: **Vector Institute Collaborative Specialization in AI**

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

## PUBLICATIONS

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**Published 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

Link: <https://ieeexplore.ieee.org/document/9544973>

**Published Poster in IEEE International Conference (ACE), 2021.**

*"Fashion Mirror using AI and ML"*

## EXTRA CURRICULAR EXPERIENCE

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**Western University, Graduate Teaching Assistant**

Courses: CS1026: Computer Science Fundamentals (Python), CS1032: Information Systems and Design

- Conducted **labs** and **assignment support**, providing hands-on guidance and troubleshooting that improved results, with **53/60 students** earning **80+ grades** and **20%** higher lab completion rates compared to other sections.
- **CS1026:** Conducted **Python labs** covering **programming fundamentals, OOPs, SOLID** and **problem solving techniques**, guiding students in writing and **debugging code** to build strong software development foundations.
- **CS1032:** Delivered tutorials on **SQL** and **database architecture** topics including **database design, ER diagrams, normalization, cloud, and security**, enabling students to apply concepts through practical lab exercises.

## CERTIFICATION

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- AWS Cloud Practitioner
- Bolt IOT and ML Training