

# HITANSHU SHAH

London, Ontario • +1 9057820364 • hitanshushah10.8@gmail.com  
[linkedin.com/in/hitanshu-shah](https://linkedin.com/in/hitanshu-shah) • [www.hitanshushah.com](https://www.hitanshushah.com) • [github.com/hitanshushah](https://github.com/hitanshushah)

## EXPERIENCE

### Lynked Inc - *Software Developer*

March 2024 – Present

- Led migration of monolithic **React/Laravel** application to **Dockerized microservices** architecture, improving deployment frequency and maintaining **production** uptime to **99.999%**.
- 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*

June 2021 – June 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

Deployed and maintained production level applications on a home server, demonstrating hands-on **DevOps** and server management experience using **Docker** for containerization, **reverse proxy** configuration, **MinIO** for object storage, and centralized authentication, serving **30+** users and processing **50+** daily sessions.

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

- Designed multi tenant architecture for creating portfolio websites with secure routing and hosting.
- 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**.
- Designed website templates with customizable color schemes, 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.
- Implemented preview functionality, allowing users to instantly visualize their portfolio before publishing.

### Email Builder (*React, Fastify, PostgreSQL, Minio, TypeScript, Authentik*): <https://designpad.demo.hitanshushah.com/>

- Built an email builder for **20+** users, enabling template creation and customization for emails and posters.
- Supports blocks creation that can be styled and customized using a built in customization panel.
- Added a demo mode with tour guide to explore features and interact with the system.

## TECHNICAL SKILLS

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- **Programming Languages:** 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, FastAPI
- **Databases:** PostgreSQL, MySQL, MongoDB, RDS, DynamoDB
- **Cloud & DevOps:** Docker, Caddy, EC2, S3, CloudFront, Lambda, Route53, Nginx, Git, CI/CD
- **Platforms & Tools:** Odoo, MinIO, Ollama, Authelia, Authentik, Keycloak
- **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