

# Aayush Vaghela

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## Skills

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- Java | JavaScript | TypeScript | Python | C++ | HTML5 | CSS3 | SQL | React.js | Next.js | Tailwind CSS | Material UI | Redux
- Node.js | Express.js | MongoDB | Firebase | RESTful APIs | WebSocket | Redis | Docker | Kubernetes | Terraform | GitHub Actions | AWS
- Microservices | Serverless | Distributed Systems | Scalable APIs | Event-Driven Systems | Frontend | Backend | Full-Stack

## Work Experience

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### Software Developer

Mamo Technolabs

Vadodara, India

12/24 - Present

- Developed and deployed **full-stack web applications** using **React.js**, **Next.js**, **TypeScript**, **Node.js**, and **Express.js**, enhancing **page load performance by 40%**.
- Designed and implemented **RESTful APIs** for **secure payment workflows**, ensuring **PCI DSS compliance** and seamless **third-party payment gateway integration**.
- Boosted backend performance by **30%** through the use of **Redis caching**, **asynchronous event handling**, and **modular service architecture**.
- Automated end-to-end **CI/CD pipelines** using **GitHub Actions**, **Docker**, and **Kubernetes**, reducing manual deployment errors by 60% and improving release cycles.

### Full-Stack Developer

Freelance

Vadodara, India

01/22 - Present

- Built and delivered **multiple MERN-stack platforms**, featuring **JWT/Firebase-based authentication**, **payment integrations**, and **real-time chat systems** using **WebSocket** and **Redis Pub/Sub**.
- Engineered **interactive dashboards** and **analytics** with **React**, **Chart.js**, and **Tailwind CSS**, focusing on **UI/UX best practices** and **responsive design**.
- Implemented **role-based access control (RBAC)** and **OAuth 2.0** for enhanced **user identity** and **data protection**.
- Deployed scalable applications on **AWS**, **Firebase Hosting**, and **Vercel**, with automated **CI/CD pipelines**, achieving **99.9% uptime** and rapid rollbacks.

## Education

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### B.Tech in Computer Science

Parul University

Vadodara, India

## Projects

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- **Build Estate – AI-Powered Real-Estate Platform:**
  - Developed a **full-stack MERN platform** using **React.js**, **Express.js**, **MongoDB**, and **Tailwind CSS** implemented **user authentication**, **CRUD operations**, and **secure image upload services**.
  - Integrated **Azure/OpenAI** for **AI-powered insights: price trend forecasting**, **rental yield analysis**, and **ROI prediction**, all presented in a **dynamic, interactive UI**.
  - Built an **admin dashboard**, **appointment scheduling**, and **real-time data** visualization using **Framer Motion** and **interactive charts** for improved user engagement.
- **Uptime Check – Real-Time Monitoring Dashboard:**
  - Architected a **microservices-based monitoring solution** with **Next.js** frontend, **Express/Bun API**, **PostgreSQL + Prisma**, and **Redis caching**.
  - Implemented **WebSocket communication** for real-time uptime tracking; added **Email**, **Slack**, and **webhook alerting** with **region-based validators**.
  - Deployed via **Docker containers** and **CI/CD pipelines** on **AWS** and **Vercel**, optimizing **load distribution** and enhancing **system scalability**.
- **Event Management System – Full-Stack Ticketing & QR Check-in App:**
  - Developed a **microservices-based event management** solution using **React.js**, **Node.js**, and **Express**, with features like **event creation**, **QR-based check-ins**, and **dashboard analytics**.
  - Integrated **Stripe & Razorpay** for **secure multi-currency payments** and **automated email confirmations** and **ticket generation**.
  - Optimized and Deployed using **Docker**, **Jenkins CI/CD**, and **optimized UI** with **Framer Motion**, achieving fast load times and smooth interactions.

## Certifications

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- AWS Solutions Architect - Associate
- CCNA Routing and Switching