HARSH SHAH

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EXPERIENCE

AB enterprise | Full Stack Intern Jan 2025 – June 2025

- Developed and deployed scalable backend APIs capable of handling 50,000+ daily requests with 99.9% uptime.
- Reduced API latency by 35% through Redis caching, database query optimization, and CDN integration.
- Automated unit and integration testing to achieve 95% code coverage, reducing production issues to zero.
- Collaborated with cross-functional teams on code reviews, technical documentation, and platform improvements.

Ashtavinayak Automobile | Software Engineer Intern Aug 2024 – Nov 2024

- Designed and deployed high-availability inventory management system (Node.js, MongoDB, Redis) capable of processing 30,000+ transactions daily with 99.95% uptime.
- Built real-time booking platform using WebSockets and MongoDB Change Streams, improving operational efficiency by 35%.
- Implemented encryption (AES-256), JWT authentication, and role-based access control to ensure data security and compliance.
- Established CI/CD pipelines with GitHub Actions and Docker, enabling zero-downtime deployments and reducing release cycles by 4×

PROJECT

PREGAVIEW | TensorFlow-Powered Pregnancy Disease Prediction & Clinical AI Platform

- Engineered TensorFlow deep learning model for pregnancy complications (gestational diabetes, preeclampsia, anemia) achieving 94% accuracy .
- Built SHAP explainability layer for clinician-understandable predictions; designed scalable REST API (Node.js + Express) with async inference supporting 1K+ predictions/hour and 65% latency reduction .
- Developed React clinical dashboard with real-time WebSocket alerts (<5 seconds latency) displaying risk stratification, confidence scores, and clinical recommendations for healthcare providers
- Deployed Docker + Kubernetes system with automated retraining on data drift detection; conducted retrospective validation.

MEDICARE | AI-Powered Healthcare Platform with IoT Integration | Kotlin, TensorFlow, Node.js, Kubernetes

- Built on-device fall detection ML model (TensorFlow Lite + sensor fusion) achieving 96% accuracy with <50ms latency ; optimized through INT8 quantization (8.2MB → 2.1MB)
- Designed Kotlin Android app with Bluetooth IoT integration for smart medicine dispensers; built medicine adherence prediction model (94% accuracy) improving medication compliance by 38%
- Architected Node.js backend is capable of processing 500+ real-time health events/day from 50+ concurrent users with sub-500ms .
- Deployed production system on Google Kubernetes Engine (GKE) with HIPAA-compliant security (AES-256, OAuth 2.0, RBAC, audit logging)

SKILLS

Languages: JavaScript , SQL , C++, Python

Backend: Node.js - Express.js - REST APIs - GraphQL-WebSockets - Microservices Architecture - OAuth 2.0 - JWT Authentication - Celery – RabbitMQ

Databases: PostgreSQL, MongoDB, Redis (Caching & Streams), SQL Server, Database Schema Design, Query Optimization, Index Tuning

Cloud & Infrastructure: AWS (EC2, Lambda, S3, CloudFront, RDS), Docker, Kubernetes, VPC, Load Balancing

Security & Compliance: TLS/SSL 1.3 Encryption, AES-256 Data Encryption, RBAC, OWASP Security Standards, OAuth 2.0 DevOps & Deployment: Git/GitHub, GitHub Actions, Jenkins, CI/CD Pipelines, Infrastructure as Code, Automated

ML & AI: TensorFlow - TensorFlow Lite - Keras - Neural Networks - Model Quantization - SHAP - Edge AI

EDUCATION

B.Tech in Computer Engineering (Amity University Mumbai)| Expected Graduation: July 2026

Higher Secondary (Rao Jr. College of Science) | HSC – **91.67%**

Secondary School (New Horizon Public School)| CBSE – **82.40%**