Vikas Shah

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Software developer engineer - Leveraging 2+ years of Experience

- Software Development Engineer (SDE) with 2+ years' experience in full-stack development, backend engineering, and hardware integration. Proven expertise in Django, FastAPI, React, AWS, and Kafka. Strong ownership of scalable system design, DevOps automation, and applied ML in video analytics.

Technical Skills

- **Languages :** Python, C++, JavaScript, SQL, Bash, HTML/CSS
- **Frameworks/Libraries :** Django, FastApi, React.js, Flask, PyQt.
- **DevOps & Tools** : Kafka, Redis, Celery, Hadoop, Postman, Git, Nginx, Docker, Kubernetes
- **Cloud/OS :** AWS, VPS, SQL Servers, Linux (Configuring and Managing), Google Cloud.
- **System Design & Architecture :** Distributed System, Microservice, (WebSockets, Server-Sent Events (SSE))
- **Others :** Agile (Scrum/Kanban), Grafana, Prometheus, Debugging

Work Experience

- **ESSI Integrated Technologies Pvt. Ltd** New Delhi, India
  Software Engineer - (Hardware Systems & ML Model Integration) Feb-2024 Present
  - **Enterprise Applications**: Built ERP, VMS, Access control system and ANPR apps with Django, FastAPI, React, PostgreSQL, Redis, Celery, Kafka. Improved response time 30% with async workflows; scaled for 5K+ daily sessions.
  - **Hardware & Device Integration:** Integrated 600+ devices (Moxa, Adam, IP cameras, HID Aero/Vertx, MiFare, UBio-X biometrics). Cut device latency 50% and reduced integration failures 30% with robust drivers and monitoring.
  - **ANPR & Video Analytics:** Designed ML-based ANPR pipelines analyzing 50K+ vehicles daily over 200+ ANPR cameras with 80%+ accuracy. Achieved 40% faster incident response using Kafka alerts, GIS camera mapping, and notifications.
  - **System Architecture & DevOps:** Automated deployments via Docker, Nginx, Gunicorn/Hypercorn, CI/CD; configured Windows/Linux services with NSSM & Hypercon. Maintained 99% uptime and scaled backend for 1,000+ active camera video feeds.
  - **Data & Security**: Migrated 1M+ records to optimized schemas; implemented RBAC, JWT authentication, and custom card encryption. Increased reporting speed 45%, reducing average query time from 2.2s to 1.2s.

- **Freelance Software Engineer** Hisar, Haryana
  Full-Stack Development & Enterprise Solutions Jan-2023 Feb-2024
  - Ticket Booking & Payment System: Developed fault-tolerant backend for 500+ daily transactions with JWT-secured APIs and payment integration. Reduced booking failures 25% and achieved checkout latency under 3s .
  - Journalist Publishing Platform: Built publishing app with RBAC, editorial workflows, and WebSocket updates. Increased efficiency 25%, enabling 500+ monthly articles with content versioning and full audit trails.
  - Hospital Management System (South Africa): Delivered modular platform for patients, billing, and scheduling. Supported 1K+ records and 1K+ monthly appointments with AES-256 encryption and secure tokenized APIs.

Education

- **Guru Jambheshwar University of Science and Technology**
  Bachelors in Electronics and Communication Engineering (ECE) Hisar, Haryana
  GPA: 8.3/10.0 Sep-2020 July-2024
  - Relevant Coursework: Digital ,Analog Electronics & Wireless Communication, Microcontrollers & Microprocessors, Computer Networks, Embedded Systems, Control Systems, AI & ML Fundamentals.
  - Achievements: Consistently scored in the top 10% of the class; developed strong foundations in problem-solving, system design, and hardware–software integration.