Zaid Khan

Senior Software Developer - Backend & System Architecture - AI Integrations - Fintech & Data Engineering

 Mumbai, India   zaidkhn222@gmail.com   +91-8691815927

 linkedin.com/in/zaidkhn22   github.com/zaidkhn

Professional Summary

Senior Software Developer with **4.5 years** of proven experience specializing in **backend engineering, scalable system architecture, AI integrations**, and **fintech platforms**. Demonstrated expertise in **architecting end-to-end production systems**, integrating complex third-party APIs (payment gateways, AI/ML services, NBFCs), and building **high-performance data pipelines**. Strong track record of leading technical initiatives, implementing **DevOps automation and security solutions**, conducting R&D for cost optimization, and delivering enterprise-grade solutions across fintech, AI, and retail domains.

Professional Experience

Senior Software Developer   July 2021 – Present
Big Rattle Technologies   *Mumbai, India*

- Leading development of backend systems and enterprise-grade integrations across multiple high-impact projects spanning **fintech, AI, and retail domains**
- Architecting **scalable APIs, database schemas**, and automation pipelines handling **high-volume data processing**
- Designing and implementing **microservices architecture** with focus on performance optimization and fault tolerance
- Integrating third-party APIs including **payment gateways, AI/ML services**, and financial data providers
- Conducting **R&D and feasibility analysis** for new product features, including cost-benefit analysis and technology evaluation
- Implementing **CI/CD pipelines** and cloud infrastructure on **GCP** for automated deployment and monitoring
- Establishing **security automation workflows** including vulnerability scanning and secret detection in CI/CD pipelines
- Establishing coding standards, best practices, and technical documentation for development teams
- Mentoring junior developers through code reviews, pair programming, and technical guidance
- Owning **end-to-end system design** decisions from requirements gathering to production deployment
- Collaborating with cross-functional teams including product managers, designers, and stakeholders

Key Projects:

Video Platform & AI Integration

- Architected **end-to-end video platform system** including database schema, REST APIs, and business logic from scratch
- Integrated advanced **AI services: OpenAI, Google Video Intelligence, and Vertex AI** for content moderation and enhancement
- Developed **event-based cloud functions** for automated video processing workflows
- Performed R&D and cost evaluation for AI service optimization, **reducing operational expenses**
- Built **YouTube-Studio-style analytics dashboard** with real-time insights and engagement metrics

Fintech Payment Solutions

- Built comprehensive **Book Now, Pay Later feature** with end-to-end payment workflows for travel fintech platform
- Integrated **multiple NBFC APIs** including Fibe, CashE, and KreditBee for flexible financing options
- Created seamless travel insurance flow using **ICICI Lombard APIs** and integrated **Razorpay payment gateway**

Financial Data & Analytics Platform

- Created **automated NSE data ingestion jobs** for real-time market data processing
- Built **Screener.in-style query builder** enabling complex financial data filtering
- Integrated Financial Modeling Prep (FMP) and synchronized data with **OpenBB** for enhanced analytics
- Developed **BRT AI library** providing reusable ML utilities for data processing

Retail Optimization & Analytics

- Built comprehensive **Looker dashboards** for GRN (Goods Receipt Note) and SAMT analysis
- Developed advanced **shelf-mix optimization logic** for retail planogram generation
- Applied **Constraint Programming techniques** for intelligent shelf planning and space utilization

DevOps & Security Automation

- Built **automated timesheet management system** using **Zoho API** deployed on cloud, generating **weekly/monthly reports** and sending **daily reminders** to employees for time logging
- Implemented **vulnerability scanning pipeline** using **Trivy** to scan Bitbucket repositories on main branch merges, with **automated notifications** for detected vulnerabilities
- Created **secret detection automation** using **GitLeaks** that scans every commit for exposed credentials and API keys, with **real-time alerts** to security team
- Integrated **Stripe** for subscription and payment management across multiple platforms

TECHNICAL SKILLS

Languages: Python, PHP, JavaScript, SQL
Frameworks: FastAPI, Laravel
AI/ML: OpenAI APIs, Vertex AI, Google Video Intelligence, Moderation APIs
Cloud & DevOps: GCP, Cloud Functions, CI/CD, Trivy, GitLeaks
Databases: MySQL, MongoDB, Firebase, Redis
Fintech & Payments: Razorpay, Stripe, KreditBee, CashE, Fibe, ICICI Lombard APIs
Integrations & APIs: Zoho API, Bitbucket API
Security: GitLeaks, Trivy

EDUCATION

Bachelor of Engineering (Computer Engineering)   2018 – 2021
Mumbai University

Diploma in Computer Engineering   2015 – 2018
Maharashtra State Board of Technical Education (MSBTE)