VIKRAM SINGH

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EXECUTIVE PROFILE

Principal Engineer with 12+ years of experience architecting and leading development of large-scale distributed systems serving millions of users. Proven track record of building high-performing teams, reducing operational costs, and delivering mission-critical systems. Expertise in cloud architecture, microservices, and AI/ML integration.

CORE COMPETENCIES

System Architecture | Microservices Design | Cloud Solutions (AWS, GCP) | Team Leadership | Technical Strategy | AI/ML Integration | DevOps & Infrastructure | Mentoring & Knowledge Transfer

PROFESSIONAL EXPERIENCE

Principal Engineer | InnovateTech Corp | Aug 2020 – Present

Bangalore, India

Led technical vision for 50+ engineers across multiple product teams. Designed enterprise-grade microservices architecture processing 1B+ transactions/month. Reduced infrastructure costs by 45% through optimization and cloud migration. Mentored 15+ engineers, 3 promoted to senior roles. Established engineering best practices and code review standards.

Senior Architect | CloudScale Systems | Jan 2018 – Jul 2020

Bangalore, India

Architected real-time analytics platform serving 10M+ daily active users. Led migration of monolithic system to 30+ microservices. Implemented message queue (Kafka) reducing

system latency by 60%. Built machine learning pipeline for fraud detection achieving 96% accuracy.

Tech Lead | DataSoft Solutions | Jun 2015 – Dec 2017

Mumbai, India

Led team of 8 engineers building data processing platform. Designed PostgreSQL schema optimizing complex queries. Implemented caching strategy (Redis) improving response time by 70%. Mentored junior developers and conducted technical interviews.

Senior Software Engineer | WebBuilder Inc | Mar 2013 – May 2015

Pune, India

Developed backend services for e-commerce platform handling 100K concurrent users. Implemented payment gateway integrations with Stripe and PayPal. Built RESTful APIs with comprehensive documentation.

Software Engineer | StartupLab | Sep 2011 – Feb 2013

Delhi, India

Early-stage startup where I wore multiple hats - built features, infrastructure, and processes. Developed core platform in Python and JavaScript. Managed AWS infrastructure and scaling.

TECHNICAL EXPERTISE

Languages: Python, Java, JavaScript, Go, SQL, Bash

Cloud Platforms: AWS (20+ services), GCP, Azure

Databases: PostgreSQL, MySQL, MongoDB, Cassandra, DynamoDB, Redis

Message Queues: Kafka, RabbitMQ, AWS SQS

Container & Orchestration: Docker, Kubernetes, ECS

Big Data: Spark, Hadoop, BigQuery

AI/ML: TensorFlow, PyTorch, scikit-learn, GPT APIs

Monitoring: Prometheus, Grafana, DataDog, CloudWatch

MAJOR PROJECTS & ACHIEVEMENTS

AI-Powered Search Platform (2022 – Present)

Technologies: Python, FastAPI, Elasticsearch, Kafka, Kubernetes, GPT-4 API

Led architecture and implementation of next-generation search platform integrating large language models. Processed 100M+ queries/month with <100ms latency. Improved search relevance by 35% using ML ranking models. Team size: 12 engineers.

Global Payment Processing System (2019 – 2021)

Technologies: Java, Spring Boot, PostgreSQL, Kafka, AWS, Kubernetes

Designed and built payment gateway serving 50 countries and 20+ currencies. Achieved 99.99% uptime SLA handling 500K transactions/day. Implemented sophisticated fraud detection reducing chargebacks by 60%.

Real-Time Analytics & Insights Platform (2017 – 2019)

Technologies: Python, Spark, Kafka, BigQuery, React, Node.js

Built data pipeline processing 10TB logs/day. Created interactive dashboards used by 1000+ business analysts. Reduced time-to-insight from days to minutes.

EDUCATION

Master of Technology in Computer Science

Indian Institute of Technology, Bombay | 2011

CGPA: 8.8/10 | Thesis: "Distributed Systems Optimization"

Bachelor of Technology in Computer Science

Delhi Institute of Technology | 2009

CGPA: 8.5/10 | National Merit Scholar

CERTIFICATIONS & AWARDS

AWS Solutions Architect – Professional (2023)

Google Cloud Professional Cloud Architect (2022)

"Tech Leader of the Year" Award – InnovateTech Corp (2022)

Kubernetes Application Developer (CKAD) (2021)

SPEAKING & COMMUNITY

Speaker: "Scaling Microservices to Billions of Requests" – PyCon India 2023

Speaker: "ML Integration in Production Systems" – AWS Summit 2022

Open Source Contributor: Kubernetes, TensorFlow