

VIPUL GUPTA

SOFTWARE ENGINEER

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Experience

Adpushup Pvt Ltd

Oct 2024 – Present

Senior Software Engineer

- **Database Migration:** Successfully migrated the entire database from **SQL Server** to **PostgreSQL**, reducing operational costs by **50%** and improving query performance by **40%**.
- **Floor Sense Product ⚡:** Engineered a real-time advertisement pricing product, seamlessly scaling it across 100+ sites and managing over **100M daily requests**. Achieved a substantial **20% revenue enhancement** while maintaining an impressive **99% uptime** record.
- **CDN Migration:** Critical migration of the CDN from Edg.io to **AWS CloudFront** within 3 days, handling a scale of 25K RPS, ensuring **zero downtime** through effective team coordination.
- **CI/CD Automation:** Containerized and automated the CI/CD pipeline using Jenkins and Docker, resulting in **80% faster deployment** and seamless delivery processes.
- **API Optimization:** Redesigned a core business API from Java to Go, achieving a **50% faster response**, significantly enhancing system performance.
- **Team Leadership: Managing** and **mentoring** a team of **3 engineers**, focusing on their technical growth, guidance, and training to align with organizational goals.

Adpushup Pvt Ltd

May 2022 – Oct 2024

Software Engineer

- **Cloud Migration & Cost Optimization:** Successfully migrated the entire infrastructure from Azure to Oracle Cloud **within 2 months**, implemented Terraform and Ansible for full automation, resulting in a **50% cost reduction with zero downtime**.
- **Monitoring & Alerting System:** Implemented Prometheus, Grafana, Consul, and PagerDuty for monitoring and alerting, reducing **issue resolution time by 40%** and improving system reliability.
- **Database API:** Developed an API for the production database, **reducing dependency** and substantially boosting the efficiency and productivity of the engineering team. This initiative resulted in a notable **20% improvement** in the database performance.
- **ETL Automation:** Automated scheduling of ETL pipelines using Airflow in production, **eliminating all manual interventions**, and improving efficiency and reliability.

Projects & Open Source

Self-Hosted Web Server on Raspberry Pi 4 | DevOps, Networking

January 2025

- Designed and deployed a self-hosted web server using Raspberry Pi 4, managing multiple websites and services.
- Hosted and maintained a personal portfolio website (vipulgupta.me) and a Jenkins CI/CD server (jenkins.vipulgupta.me).

Contribution - DiceDB ⚡ | GO, OS

February 2025

- Contributed to DiceDB, resolving critical bugs and implementing new features to enhance database functionality.

Contribution - Spring Data CB ⚡ | Java, OS

January 2024

- Contributed to Spring Data Couchbase, resolved a bug, and enhanced functionality.

Technical Skills

Languages: Java, GO, JavaScript, C/C++, SQL

Technologies/Frameworks: Spring/Spring Boot, Kafka, Hadoop, Spark, Docker, Terraform, Ansible, Jenkins, Kubernetes

Databases: PostgreSQL, SQL Server, Clickhouse, Couchbase

Education

Delhi Technological University

Aug. 2019 – Aug 2023

Bachelor of Technology in Physics/Computer Science