Vijay Kumar

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Skills

Languages: Typescript, JAVA, Python, Golang	**Cloud:** Proficient with AWS, GCP
Frameworks: Node.JS, Nest.JS, React, Express, Spring Boot, FastAPI	**IaC:** Terraform, Cloudformation
Databases: PostgreSQL, DynamoDB, MongoDB, OpenSearch	**Containerization:** Docker, ECS, Fargate, K8s
Architecture: Distributed Systems, Serverless, Event Driven	**Logging:** Sumologic, Newrelic, Snowflake

Education

- **Dayananda Sagar College of Engineering** — Bengaluru, Karnataka
  BTech in Computer Science & Engineering — *July. 2017 – July. 2021*

Experience

- **◇◇ Cimpress Technology** — Bengaluru Karnataka
  Senior Software Engineer — *August 2021 - Present*

  - **Internal Developer Platform**: Built a Kubernetes-based platform with Humanitec and custom Go operators to unify deployments for **50+ microservices**. Wrote Terraform modules for AWS resources and automated GitLab pipelines, standardizing deployment code from **1500+ lines to 20 lines of code**.
  - **Customs Data Reconciliation Pipeline**: Replaced manual PDF processing with a serverless pipeline using AWS Textract, Lambda (Node.js), and SQS FIFO queues with message deduplication. Handled schema drift with JSON Schema validation, confidence scores and retries via Step Functions. Cut operational costs by **$2M/year** by reducing EC2 spot instance usage by **60%** and manual labor (**4 FTEs**)
  - **Transit Times Service Migration**: Rewrote a legacy Java/Spring Boot app into Node.js and Nest.js using asynchronous architecture to resolve memory leaks (reduction in **OOM crashes**). Created a carrier onboarding framework (REST + SFTP) that eliminated manual data entry completely, cutting integration time from **3 weeks to 2 days for 15 carriers**.
  - **Status Subscription Service**: Scaled event processing to **30M+/month** using AWS EventBridge, Kinesis Stream, SQS, and idempotent Lambda handlers to deliver near **real-time** tracking updates and reduced customer support interactions by up to **90%**.
  - **PostgreSQL Zero-Downtime Migrations**: Cut production DB downtime from **47 minutes to 21** seconds using **pglogical replication** and **blue/green deployments**. Wrote Terraform scripts to automate RDS failovers.
  - **AWS Secrets CLI Tool**: Created a CLI tool to manage AWS Secrets Manager configurations, adopted by **3 teams** to handle **200+** production secrets. Integrated it into CI/CD pipelines for automatic secret rotation.
  - **System Reliability & On-Call**: Gathered **3+ years** of in-depth on-call experience. Integrated Sumologic alerts into Slack for **real-time alerts** on **300K+ daily events** processed by asynchronous systems. Reduced reported issue count by **90%** and enhanced system reliability.
  - **Interviewing & Team Growth**: Ran **30+** interviews for **senior backend roles** and campus hires. Redesigned coding tests to focus on debugging distributed systems. Mentored **3 junior engineers** through architecture decision reviews and debugging workshops focused on distributed systems principles.

- **▼ Quotient Technology** — Bengaluru, Karnataka
  Software Engineering Intern — *January 2021 - June 2021*

  - **A11Y Web Accessibility Enhancements**: Audited and enhanced accessibility for **4** public-facing web applications, identifying **a11y** issues and implementing fixes to improve compliance and usability.
  - **LightHouse Web-Audit Tool**: Developed using Node.js, Express.js, and Puppeteer, achieving a **60%** improvement in accessibility scores through **automated**, **real-time** issue identification. Used this tool to run automated scans on a specified list of hosts at regular intervals, generating detailed reports, reducing manual scans by **100%**.

Personal Projects

- **High Frequency Trading System - In House**: Developed an HFT system to aggregate market signals from reputed sources, analyze historical success rates, and place real-time orders on multiple brokers.
- **Content Magic**: A SaaS to generate faceless videos from text prompts. Built with NextJS, OpenAI, ElevenLabs, Stable Diffusion 2 and Audiogram. Production-ready content for YouTube, Instagram, LinkedIn etc.

Awards and Achievements

Top Rated Upwork Freelancer(2021) • AWS **Certified Developer Associate**(2022) • EC Council - CEH(v10) • Codechef 5* Rated **2054** (2021)