Utkarsh Saxena

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Summary

Lead Software Engineer with 4+ years of experience building Golang microservices, distributed systems and AI-powered automation platforms. Currently leading the roadmap and backend architecture of a digital workers platform, including Kubernetes and air-gapped deployments. Earlier work focused on high-throughput event-driven services, database performance and edge computing on Cloudflare.

Work Experience

Lead & Software Engineer May 2025 – Present

Piovation GmbH *Munich, Germany (Remote)*

- Lead roadmap, prioritization and delivery of **PioWorkers**, a digital workers and cloud operations platform, working across cross-functional teams while owning backend architecture.
- Built **AI-powered digital workers** and delivered one to the **City of Augsburg (PioAkte)**: it processes scanned HR documents, classifies and categorizes them, and imports them into the **d.velop d.3** document management system. Increased processing speed to **30 pages/min**, and **15 pages/min** for handwritten forms.
- Delivered **air-gapped (fully offline) deployments**, with a secure process for shipping updates and new releases into isolated environments.
- Designed **Golang microservices** for cloud infrastructure management, worker orchestration, scheduling and operational automation; improved first-instance allocation and reliability by **40%**.
- Optimized node registration and cloud management initialization to **5 minutes at most** (under **1 minute** in the best case), down from stalls of **2+ hours**.
- Architected **Kubernetes** and **Docker** deployments, covering resource allocation and cluster reliability for consistent, scalable releases.
- Lead and mentor the engineering team through architecture and code reviews and engineering best practices, increasing developer efficiency by **20–25%**.

Rabbitloader (Yogi Network) August 2022 – May 2025

Software Engineer (Jan 2024 – May 2025), Intern (Aug 2022 – Jan 2024) *Kolkata / Remote, India*

- Designed independently deployable **Golang** microservices communicating over REST and **RabbitMQ**; built event-driven pipelines with worker pools and concurrent consumers (goroutines, channels) for fault tolerance under heavy load, improving throughput by 40%.
- Streamlined service-to-service communication with **Protocol Buffers (gRPC)**, reducing latency by 30 ms per transaction at peak usage.
- Built **Cloudflare Vector AI** training workflows in a Cloudflare Worker (Node.js) and integrated them with **WordPress**, reducing bounce rate by 30%.
- Architected an SEO-optimized web application (Dofollo) with **React + TypeScript** on **Cloudflare Workers**, using **D1 (SQLite)** for edge storage and **MongoDB** in a supporting microservice; cut hosting costs by 10%.
- Optimized data access with **MongoDB**, **MySQL** and caching (**Redis, BigCache, Memcached**), reducing query latency by 40% and improving throughput by 25%.
- Built and ran high-traffic services on **DigitalOcean** and **Cloudflare** (about 60,000 daily interactions), with **Firebase Authentication**, reaching a 100/100 PageSpeed score.

Full Stack Developer Intern May 2022 – July 2022

Wizwack *Remote, India*

- Built backend services with **Node.js** and **Express.js** on **Firebase** and **GCP Pub/Sub** to support multiplayer gaming for 100+ simultaneous users.
- Designed low-latency **REST APIs** and automated bulk API testing with **Postman**.

Technical Skills

Languages: Go, TypeScript, JavaScript, SQL, Java
Backend & APIs: Microservices, REST, gRPC, Protocol Buffers, Gin, Node.js, Event-Driven Architecture
AI & LLM: Claude API, MCP, Tool Use, Prompt Caching, Document Classification
Distributed Systems: RabbitMQ, Kafka, Temporal, Goroutines/Channels, Worker Pools, High Availability, Resource Scheduling
Databases & Caching: PostgreSQL, MongoDB, MySQL, Redis, Cloudflare D1, Query Optimization
Cloud & Infrastructure: Docker, Kubernetes, Linux, Cloudflare Workers, GCP, DigitalOcean, GPU Workload Management
Observability & Testing: OpenTelemetry, Structured Logging, Testify, Postman
Tools: Git, GitHub, Jira, Keycloak, Docker Compose

Projects

VyapaAI – AI Business Secretary | *Node.js, Claude API, MCP, SQLite, PWA* | GitHub 2026

- Built a multi-tenant **AI bookkeeping app** for Indian SMEs on **Claude tool-use + MCP**, turning English/Hinglish chat, voice and bill photos into GST invoices, inventory and ledger updates.
- Designed a tool-based **AI orchestrator** with strict schemas: arithmetic and validation run in code, and every AI write is audit-logged.
- Implemented **two-layer rate limiting** (per-tenant token bucket, plus a global LLM limiter with a FIFO queue and daily token budget) and **prompt caching** to cut token cost.

Html-Optimizer | *Go, Docker* 2023

- Built a standalone Go module that optimizes HTML documents, cutting page load time by 40% and improving Core Web Vitals and SEO.

Education

I.K. Gujral Punjab Technical University Jalandhar, India
*B.Tech in Computer Science, CGPA: **8.83**/10* *Oct 2020 – June 2024*

Achievements & Profiles

- **GATE 2023 Qualified** (IIT Kharagpur)
- **CodeChef Contest Rank 6**; Department Coding Contest Winner, I.K. Gujral Punjab Technical University
- Profiles: LeetCode (usutk) | CodeChef (utk_2003)

Interests: NBA, Music Production