Sankalp Mukim

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SUMMARY

Software engineer shipping end-to-end systems across agent platforms, cloud infrastructure, and developer tooling. Main author of AIOps Bot Platform — a production agent platform with harness, inference, observability, and analytics for IBM Cloud AI Ops; previously led ≈50% AWS cost reduction at ION Group.

SKILLS

Languages: TypeScript, Go, Python, JavaScript, SQL
Backend & AI: Node.js, Next.js, Express, React, Postgres, Drizzle, MCP, agent runtimes, watsonx, vLLM / OpenAI-compatible serving, WebSockets
Infra & DX: AWS (SAA), Docker, IaC, CI/CD, Ansible, nginx, browser & VS Code extensions, Go CLIs/TUIs, LSP

EXPERIENCE

IBM Cloud · Delhi NCR — **Mar 2025 – Present**

Software Engineer · AI Ops / Copilot

- Main author of AIOps Bot Platform, a comprehensive agent platform with built-in agent harness, inference, observability, and analytics — 1.5M LLM calls and 176k agent conversations last month across production IBM Cloud AI Ops agents.
- Built ask-iaas, an in-house agentic chatbot used by L1 support to debug incidents and learn technologies in the IaaS department of IBM Cloud.
- Built BobOps, a VS Code extension unifying a modern agent-harness frontend with L1 tooling (logs, Activity Tracker, ServiceNow, GitHub cases), an AI-customizable UI pane engine, and skills management — 36 installs, 544 sessions, 0% error rate.
- Designed a Go load balancer for LLM inference with conversation affinity, streaming, and live load metrics; built Vulcan, a self-hostable PaaS for apps and databases.
- Made a public open-source contribution to IBM's MCP registry (IBM Cloud Docs MCP); author/maintainer of an in-house drag-and-drop agent builder; shipped runbook/KB MCP search for incident workflows.

ION Group · Delhi NCR — **Jan 2024 – Mar 2025**

Software Engineer · Barracuda FX (Infra)

- Led AWS cost-reduction initiative cutting cloud spend by ≈50%; established org-wide resource-efficiency practices across Barracuda FX infra.
- Owned IaC deployments, CI/CD pipelines, database migrations/backups/restores, and internal development environments (Python, shell, Docker).
- Built monitoring suite end-to-end: Python data pipeline, React + Python + MySQL refinement UI, and Power BI / HTML reports for health checks and clients.

Earlier roles — **2021 – 2023**

Streak (YC W22) · North of Zero · Indiahikes · IoTReady

- **Streak (YC W22)** / **North of Zero**: product/backend at early-stage startups; **Indiahikes** trek-ops tooling; **IoTReady** React-Admin + Hasura GraphQL ERP (AWS SNS OTP, JWT, Postgres).
- **ACM-VIT**: web/devops for Cryptic Hunt (500 concurrent users); taught TypeScript and Go.

SELECTED PROJECTS

AWS Accounts Manager — Plasmo · TypeScript · GitHub Actions · 250+ active users

- Cross-browser extension (Chrome / Edge / Firefox) with CI publish, account export/import, and multi-account AWS console switching.

httpfromtcp · Freelance ERP (The Rodeo Lane) — Go · Next.js / Postgres

- HTTP/1.1 server from raw TCP sockets (http.sankalpmukim.dev); memberships + GST billing ERP for The Rodeo Lane.

OSS & DX — merged upstream

- Public contribution to IBM's MCP registry; **cloudflare/vinext** #178 merged; **hadolint-lsp** language server.

EDUCATION & CERTIFICATIONS

Vellore Institute of Technology — B.Tech, Computer Science Engineering — **Sep 2020 – Aug 2024**

AWS Certified Solutions Architect – Associate