Swapnil Kumar

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PROFESSIONAL SUMMARY

Software engineer with **2+ years** at **Accenture** automating cloud and server operations across **AWS**, **Azure** and **GCP**: new server builds, **Linux patching**, pre-checks and post-checks, monitoring blackouts and scripted cleanup, delivered through **Python** tools and a **Teams** chatbot used by **25+ engineers**. Also ships products: a desktop app with **600+ active users** and a lead platform with **20+ paying customers**, built on **Node.js**, **Docker** and **AWS**.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, Bash/Shell, SQL
Backend: Node.js, Express.js, Fastify, REST APIs, Redis Queues, Cron Jobs, JWT, TOTP, OAuth, Prisma, Zod
Frontend: React, Vite, PWA & Service Workers, Chrome Extensions (MV3), HTML5, CSS3
Databases: PostgreSQL, Redis, SQLite, Firestore, Supabase
Cloud & DevOps: AWS (EC2, S3, IAM, VPC), Azure, GCP, Docker, Docker Compose, GitHub Actions, Prometheus, Grafana, Linux, SaltStack
Core CS & Testing: Data Structures, Algorithms, OOP, DBMS, Operating Systems, Computer Networks, Vitest, Playwright, pytest

PROFESSIONAL EXPERIENCE

Associate Software Engineer — **Sep 2024 - Present**
Accenture — *Gurugram, India*

- Automated end-to-end **Linux patching** on **AIOps**: repo sync, prechecks, unsnooze, patch and reboot, with **Teams** approval at each step.
- Tied it to the **ServiceNow** change schedule, cutting a window from **3-4 engineers for 5-6 hours to one monitoring under an hour**.
- Proposed and built a standard **server build template** with other teams, so new servers come up with every service installed in one run.
- Built a **Teams** chatbot in **Python** for **25+ engineers**, joining **AIOps**, **SUSE Manager** and **Teams** APIs to run checks and return reports.
- Added **pre-check and post-check** runs that compare automatically, cutting review **75%**, about **10 hours per 550-server cycle**.
- Traced repeat alerts to a bad **monitoring blackout** setting, then built a **Teams** workflow that cut setup from **35 minutes to 5**.
- Built the **SaltStack** check engine for **550+ servers**, fixing a **P2** overload with batching based on **CPU load** and automatic retries.
- Wrote **Python** and **Bash** scripts for **kernel cleanup**, log triage and disk usage alerts, with timestamped output for audits.
- Recovered a production server from a **kernel boot failure** using the previous kernel and an **AWS snapshot** restore, with no data loss.

PROJECTS

HeySaral (Voice Dictation Desktop App) | *Electron, Node.js, Python, Whisper, FFmpeg, GitHub Actions* — heysaral.com

- Shipped a **Mac** and **Windows** app (**v1.3.0**) that types what you say wherever you are working: **1,000+ downloads, 600+ active users**.
- Added **six speech and AI providers** with retries and auto-switching, falling back to **offline Whisper** when one fails.
- Wrote native **macOS** and **Windows** code to find the active text box, skip password fields, and keep API keys in the **OS keychain**.
- Set up releases with **GitHub Actions**, building **three DMG and NSIS installers** per chip type with **Python** bundled inside.

LeadScrappy (B2B Lead Generation Platform) | *Node.js, Docker, SQLite, Supabase, Google Sheets API* — leadscrappy.aquino.in

- Built and sold a lead-generation platform: **20+ paying customers at $29/month**, running on **AWS** with **Docker** and health checks.
- Added **Supabase** login and encrypted storage for user API keys so each customer's leads and credentials stay separate.
- Ran collection in the background after the browser closes, exporting to **Google Sheets** and **Airtable** with dedupe and rate-limit backoff.
- Wrote **22 test suites** covering account separation, job recovery, location filtering and export accuracy.

Deal Automation & Container Scheduler | *Node.js, Docker, PostgreSQL, Redis, Prometheus, Grafana* — dealflow-ai · docker-snooze

- Built a **five-service pipeline** on **Docker Compose** that finds product deals, checks them with **Gemini**, and posts them to **Telegram**.
- Added **Prometheus** and **Grafana** dashboards to track how much each service processes and spot the ones failing.
- Built a portal with **20 REST endpoints** that schedules containers via the **Docker Engine API** and **Telegram**, so idle services cost less.

EDUCATION

Indian Institute of Technology Mandi — **Jul 2024 - Aug 2025**
*Minor in Data Science & Machine Learning - CGPA: **8.1 / 10*** — *Mandi, India*

Chandigarh University — **Aug 2021 - Jul 2024**
*Bachelor of Computer Applications - CGPA: **8.11 / 10*** — *Mohali, Punjab*

CERTIFICATIONS & ACHIEVEMENTS

- **Google Cloud**: Professional Cloud Architect, Professional Data Engineer, Professional ML Engineer. **Microsoft**: DevOps Engineer Expert.
- **Molson Coors Brilliance Award**, won **twice** at Accenture, with client recognition for system support. Verify
- **Letter of Recommendation** from Batch Head (BCA), Chandigarh University, for academics and contribution. Verify
- **2nd Prize** at Chandigarh University Project Expo 2023 for **MAZE VR**, a PC and VR puzzle game in Unreal Engine. Verify