

Akshat Kumar

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Professional Summary

Software Engineer with 1.5 years of experience building scalable full-stack systems and secure APIs. Recently transitioned focus to **Systems Engineering** and **Golang**, with hands-on experience managing bare-metal infrastructure and self-hosted services. Proven ability to optimize database performance (reducing latency by 35%) and architect reusable frontend modules.

Skills

- **Languages:** Go (Golang), JavaScript/TypeScript, Python, Pandas, Numpy, matplotlib
- **Backend Infra:** Docker, Linux (Debian), REST APIs, Microservices.
- **Frontend:** React.js, Next.js, Redux Toolkit, Tailwind CSS, Atomic Design.
- **Databases:** PostgreSQL, MongoDB, Redis.
- **Data Structures / Algorithms:** 500+ Questions on Leetcode

Experience

Independent Software Engineer / Sabbatical

Remote

Self-Hosted Infrastructure & Research

Jan 2025 – Present

- **Homelab Architecture:** Designed and deployed a bare-metal server running **Debian 13** to host 24/7 internal services, focusing on network security and resource efficiency using Docker.
- **Network Security:** Engineered a secure remote access solution using **Cloudflare Tunnels** to expose specific services (Cockpit, Uptime Kuma) while keeping ports closed, securing endpoints with Cloudflare Access (OTP).
- **Go Transition:** Currently porting legacy Node.js applications to **Go**, utilizing Goroutines and Channels for concurrent data processing.

CAW Studios

Jul 2024 – Jan 2025

Software Development Engineer 1

Hyderabad, India

Client: Hoichoi (OTT Platform)

- **API Optimization:** Engineered data fetching layers utilizing caching strategies that reduced API loading times by **35%** and improved overall application throughput.
- **Authentication Systems:** Developed secure session management flows handling **500K+ monthly active users**, implementing Iron Session for stateless authentication.
- **Component Architecture:** Led the frontend development of the profile management system, implementing Atomic Design patterns to reduce UI inconsistencies.
- **Performance:** Engineered content personalization logic (maturity ratings) and optimized payload delivery, increasing user engagement metrics.

CAW Studios

Jul 2023 – Jun 2024

Associate Software Development Engineer

Hyderabad, India

Client: Novocuris (Healthcare)

- **Scalable UI Architecture:** Created a white-labeled templating system allowing 10+ hospital brands to customize UI/UX while sharing core functionality, reducing deployment time from months to 2 weeks.
- **Frontend Modules:** Developed 15+ reusable React components and patient management modules handling 1K+ records with strict data compliance.
- **Data Pipeline (Backend):** Architected a Python-based scraping engine (BeautifulSoup/Scrapy) capable of ingesting and processing **10,000+ records daily**.
- **API Development:** Built RESTful APIs using Express.js, reducing data access latency by **60%** through optimized query structuring.

Projects

Personal Finance Tracker API

Apr 2025

- Designed and implemented a modular Express.js backend with PostgreSQL for user authentication, expense management, and budgeting.
- Built features like behavioral scoring, notification engine, transaction ledger with reversals, and JWT-based secure APIs.
- Documented the system with a detailed **design doc** explaining architecture and design choices.

Education

Bennett University

2020 – 2024

B.Tech in Computer Science Engineering

CGPA: 8.7

Apeejay International School

2019 – 2020

12th CBSE board PCM

Percentage: 88%

Certifications

- The Complete 2024 Web Development Bootcamp - Udemy