

# Ankur Singh

+91 97171 93630 | hello@anks.in | Bangalore, India | LinkedIn | GitHub

## Professional Summary

Experienced software engineer with a strong focus on creating efficient, reliable, and scalable technology solutions that drive business success. Skilled in automating processes, optimizing performance, and ensuring system reliability across various industries, from e-commerce to scientific research. Passionate about using technology to solve complex problems and deliver value to users and stakeholders.

## Education

### IIIT Delhi

August 2013 - July 2017

*Bachelor's, Computer Science*

- Gold Medal: Best B.Tech Project in Entrepreneurship
- Byld (SDE Club) Admin
- SysAdmin TA (Data Center/R&D infra)
- TA: Intro to Programming '14 & '15

## Professional Experience

### DollarDB

Bangalore, KA, India

*Co-founder*

November 2024 - Present

- Cloudflare-native, serverless backend platform offering auth, storage, and generated CRUD APIs from a declarative schema
- Designed the product architecture around Workers, R2, D1, KV, and Durable Objects; implemented multi-tenant isolation, per-project envs, and request-level audit trails
- Architected schema-to-API generator with validation, pagination, role-based access, and rules engine
- Built a responsive frontend in Svelte 4 for the admin app
- Tech: Cloudflare Workers/R2/D1/KV/DO, TypeScript, Node, SQLite, Zod, Hono, Wrangler, GitHub Actions, Svelte

### Self Employed

Remote

*Freelancer Engineer*

March 2023 - Present

- Delivered backends, automation, and 3D integrations for startups and SMEs
- Implemented and integrated 3D model viewers and configurators for multiple Jewelry Clients - ViXii, Imagine Bridal, Roman & Jules, JewelFX
- Key Project: iJewel Studio (Pixotronics) - Built a platform for jewelry designers to upload, optimize, and render 3D models. Automated Blender pipelines for mesh optimization; added async job queue + status callbacks. Deployed scalable backend with Supabase + Workers + Cloud Run; configured observability and error budgets for long-running jobs
- Tech: Next.js, React, Supabase/Postgres, Python, Cloudflare Workers, Docker, WebGi, Blender

### European Organization for Nuclear Research (CERN)

Geneva, Switzerland

*Computing Fellow*

September 2020 - February 2023

- Managed core research compute infrastructure, ensuring high availability for a 250k core compute cluster
- Designed and implemented fault-tolerant DevOps automation with StackStorm, significantly reducing manual workload

- Developed adaptive load shaping solutions for resource-intensive research jobs, addressing critical storage issues
- Automated the roles of two support engineers by designing and implementing automation workflows to handle manual remediation processes for cluster nodes, reducing labor costs, minimizing human error, and improving uptime metrics across the production environment

## **Tower Research Capital**

**Gurugram, India**

*Software Engineer, HPC*

*June 2018 - July 2019*

- Administered 4 HTCondor clusters with over 30k cores for trading research and backtesting
- Implemented advanced, real-time monitoring solutions using ELK stack, InfluxDB, and Grafana
- Contributed to setting up a 500-node Kubernetes cluster for infrastructure migration, focusing on scalability and resilience
- Enhanced system performance and reliability, enabling efficient and secure trading operations

## **Myntra**

**Bengaluru, India**

*Software Engineer, BI/Analytics*

*July 2017 - June 2018*

- Developed and optimized data-intensive analytics platforms, improving business intelligence and decision-making efficiency
- Enhanced Universal Dashboarding Platform (UDP) and Data Democracy Portal (DDP), resulting in improved performance and scalability
- Identified and resolved a key performance bottleneck in the Personify user segmentation platform, leading to a notable reduction in processing time
- Enabled efficient, data-driven decision-making processes across the organization, enhancing overall operational efficiency.

## **Projects & Outside Experience**

### **SquareCubed**

**Remote**

*Developer*

*October 2023 - October 2023*

- SquareCubed — AI-assisted virtual 3D showroom for Square stores
- Integrated Square APIs; created AI integration using Vertex AI; designed real-time inference/render flow with WebGL
- Won Square + Google AI Hackathon (“Best reinvention/unification of in-person & online experiences”)
- Tech: Vertex AI, Svelte/Next.js, WebGL SDK, Workers, Node, Python
- [Link to project](#)

## **Skills**

**Languages:** Python, JavaScript, TypeScript, Bash, Ruby, SQL, Java, C, Golang

**Databases:** Postgres, MySQL, MongoDB, SQLite, Redshift, MemSQL

**Frameworks:** Ruby on Rails, Django, FastAPI, Flask, React, Next.js, SvelteKit, Spring Boot

**DevOps and Cloud:** Puppet, Ansible, Docker, Kubernetes, AWS, GCP, Azure, Terraform, Helm, StackStorm, HTCondor, Slurm, CI/CD

**Monitoring and Analytics:** ELK, InfluxDB, Graphite, Grafana

**Core Competencies:** Software Design, Distributed Computing, Resilient Architecture, Scalable Architecture, Performance Optimization, Intuitive UI/UX, Cost Effective Solutions

**Other:** JIRA, Agile, Collaboration, Communication, Adaptability, Innovation, Mentoring, Problem Solving, Critical Thinking