

Jasdeep Singh

Senior Software Engineer

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A software engineer with 9 years of experience building products & infrastructure for small to mid sized startups typically in 0-1 setup. I enjoy programming and fiddling with servers. I'm focusing on learning more about eBPF, OpenTelemetry, Datafusion, Arrow, Parquet & Distributed systems. Currently looking for high-commitment, high-risk, long-term projects. Open to on-site opportunities, 7 days of notice period.

Skills

Go | Rust | Typescript | Apache Arrow | Parquet | Datafusion | Redpanda | PostgreSQL |
Kubernetes | Terraform | AWS | Observability | eBPF | Linux | REST / gRPC | CI / CD |
Ansible | Cloudflare | Distributed Systems

Work Experience

Senior Software Engineer

Cheqd Network - UK Remote / Bangalore, India

Nov 2021 - Current

Cheqd is the best payment & trust infrastructure for credentials & verifiable AI in EU & UK. Joined here as a DevOps Engineer & worked directly with our CTO. Took over within weeks to fully automate our infrastructure across AWS, Digital Ocean and Hetzner & then moved on to software development role, **building multiple products from 0-to-1**

- Lead architecture & development of Creds.xyz, a credential issuance, verification & management platform
- Developed **multi-cloud infrastructure** across Digital Ocean, Hetzner, Cloudflare & AWS using Terraform, Terragrunt, Ansible and custom tooling with well scoped, reusable modules
- **Lead Creds Analytics Engine** - A highly performant analytics backend built on-top of PostgreSQL with dynamic, type-safe API operations
- Designed many microservices & client integrations handling complex state updates, deeply nested reactive components, managing retries, rollbacks & caching
- Planned & Integrated tooling for **OpenTelemetry for Cloudflare Workers & Pages** stack for NodeJS and SvelteKit projects. Cut down API error rates by over 75%, P95 latency by over 30% & page load times by 50%.

DevOps Engineer

Certa - US Remote / Hyderabad, India

Jan 2020 - Mar 2021

Certa is a **Third Party Risk & Compliance Management** company with a fully remote engineering team. As a DevOps Engineer on team I primarily worked on automation, scalability, monitoring & internal tooling. Developed infrastructure used by many of our **Fortune 100 & Fortune 500** clients like Box, Uber, & more.

- Worked on infrastructure automation using Go, Terraform, Ansible and Packer
- Optimized AWS billing by roughly 30% & build pipeline execution times by more than 33%
- Managed large-scale AWS ECS Clusters, improving their scalability, cost optimization, configuration management & different deployment strategies.
- Developed **high-performance data pipelines** for our core workflow engine using AWS Lambda, Step Functions, Kinesis, S3 & PostgreSQL.
- Implemented a multi-AZ disaster recovery practice to improve system reliability
- Built an auditable, secure and easy to manage Privilege Access Management System using Hashicorp Vault and various AWS Services for our internal infrastructural access management
- Collaborated with Backend and QA teams to incorporate stress, load, and performance testing with the objective to exceed our SLOs

Sr. Software Development Engineer

Vitwit Technologies - Hyderabad, India

Apr 2017 - Dec 2019

As a Senior SDE in the organization, worked with different teams, majorly on backend technologies like Go, PostgreSQL sometimes frontend and managed organization's AWS account. Worked under direct supervision of our CTO and handled client interactions whenever required.

- worked on various projects, developing REST APIs with Go, PostgreSQL and occasionally working on React projects
- Managed AWS accounts for various clients and operations
- Improved PostgreSQL query execution time by as much as 500%
- Worked on administrative APIs for a commodity trading platform
- Managed deployments and operations for most of the projects inside the organization

Individual Contributor

Open Source Contributions

Jan 2022 - Current

Recently, I've also started doing more Open Source contributions. I've been using OSS tools for all of my professional life and I have huge respect for people who give their time back to the community. So far, I've contributed to few projects via Bounties and Issues.

- [OpenRegistry](#) - Built a FOSS container registry fully compliant with the OCI Distribution spec
- StreamNative - terraform-provider-pulsar
- IPFS WebUI - CLI Tutor Mode, Docs
- ENDomains - started and donated *crypto-addr-serializer* package, which is now one of their main packages for [address-encoder](#) package.
- [@cntr/sveltekit](#) - An early version of the official Logto SDK for SvelteKit

Education

Electronics and Communications

DAV Institute of Engineering & Technology

Aug 2013 - Jul 2017

Learned about embedded systems, databases, programming, networking, control systems, signal processing, Wireless & and many core technologies.