

# Jasdeep Singh

## Senior Software Engineer

India

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I'm a software engineer with 8+ years of experience building products & infrastructure for small to mid sized startups. I enjoy programming and fiddling with servers. I'm focusing on learning more about eBPF, the QUIC protocol, and implementing Raft.

## Skills

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Go | Typescript | Zig | PostgreSQL | Observability | eBPF | REST & gRPC | Distributed Systems | AWS | Terraform | Ansible | Kubernetes | Linux | Cloudflare

## Work Experience

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### Senior Software Engineer

Cheqd Network - UK - Remote

Nov 2021 - Dec 2024

Cheqd is the payment & trust infrastructure for credentials & verifiable AI. 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.

- 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 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 our Cloudflare Workers & Pages stack for NodeJS and SvelteKit projects & cut down API error rates by over 75%
- Reduced API latencies by over 30% & page load times by over 50% on average
- Developed many internal and open source packages to improve our developer experience & productivity

### DevOps Engineer

Certa - US - Remote

Jan 2020 - Mar 2021

Certa is a third party risk management company with a fully remote engineering team. As a DevOps Engineer on team I primarily worked on automation, scalability, monitoring & internal tools.

- 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.
- 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 - 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

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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.