

# Jasdeep Singh

## Senior Software Engineer

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I'm a software engineer with 8+ years of experience. Love to shuffle between infra & product building. For 2025, I'm focusing on learning about eBPF, implementing RAFT & QUIC from scratch.

## Skills

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Go | Rust | Typescript | PostgreSQL | Observability | REST | gRPC | Distributed Systems |  
AWS | Terraform | Ansible | Docker | Kubernetes | Linux | Cloudflare

## Work Experience

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### Senior Software Engineer

Cheqd Network

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.
- Built performant APIs to handle bulk writes & complex reads reliably.
- Designed many microservices handling complex state updates, managing retries, rollbacks & caching.
- Planned & Integrated tooling for OpenTelemetry for our Cloudflare Workers & Pages stack for NodeJS and SvelteKit projects & brought down API error rates significantly
- Automated the entire infrastructure using Terraform, Terragrunt & Ansible with well scoped, reusable modules
- 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

### DevOps Engineer

Certa

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%
- Improved ECS Clusters by adding different capacity providers for better scalability
- Integrated AWS Secrets Manager with ECS to manage application secrets, centrally
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- 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

## Sr. Software Development Engineer

Vitwit Technologies

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.