

# Sushov Karmacharya

Software Engineer — Product / Backend / Distributed Systems  
sushov.com — karmacharya.sushov@gmail.com — San Francisco Bay Area

## Summary

Product-focused software engineer with 6+ years of experience building backend systems that power customer-facing products at scale. Experienced in collaborating with **product managers, designers, and frontend engineers** to translate feature requirements into reliable, high-performance systems. Strong background in distributed systems, cloud infrastructure, and API design, with a focus on improving **user experience, performance, and operational reliability**.

## Education

### Georgia Institute of Technology

Master of Science in Computer Science

Specialization: Computing Systems

Advanced coursework in Distributed Systems, Operating Systems, and System Design.

## Professional Experience

### Curves n' Colors Pvt. Ltd. — Senior Software Engineer (Backend / Platform)

Aug 2019 – Sep 2022

- Built and operated backend services powering core product workflows for **50k+ daily active users**, ensuring reliable and responsive user experiences during peak traffic.
- Improved API response times by **40%**, enabling faster page loads and smoother interactions in customer-facing features.
- Collaborated closely with product managers and frontend engineers to design APIs and data models that supported rapid feature development.
- Led migration from a monolithic architecture to containerized microservices, enabling faster feature iteration, safer deployments, and improved user-facing reliability.
- Established CI/CD pipelines and observability standards (Prometheus, Grafana), reducing incident MTTR by **30%** and improving product stability.

### ThunderCodes — Co-Founder & Lead Engineer

Jul 2019 – Sep 2022

- Delivered end-to-end product features for CMS and e-commerce platforms, aligning backend architecture with real user needs in a fast-moving startup environment.
- Built and scaled backend systems from zero to **10k+ users**, supporting **10x traffic spikes** during launches and marketing campaigns.
- Designed asynchronous job pipelines to decouple user-facing APIs from background processing, improving responsiveness and reliability.
- Owned cloud infrastructure using **Terraform**, ensuring reproducible staging and production environments.
- Designed backend APIs with frontend requirements in mind, enabling predictable UI behavior and efficient client-side rendering.

### KlientScape Software — Backend Engineer

Jul 2016 – Feb 2019

- Developed financial transaction systems enforcing strict **ACID guarantees**, ensuring data correctness for customer-critical workflows.
- Designed and optimized PostgreSQL schemas for large datasets, improving reporting and user-visible query performance by **25%**.
- Partnered with product and operations teams to translate evolving business requirements into stable, well-documented APIs.

## Academic Projects

### Distributed Systems Coursework

2023 – Present

- Built fault-tolerant services and data-processing frameworks to explore real-world tradeoffs in consistency, availability, and failure recovery.

## Leadership & Volunteering

### Code Ninjas — Technical Mentor (Volunteer)

Jan 2023 – Present

Mentored students in computer science fundamentals, debugging strategies, and problem-solving techniques.

## Technical Skills

Languages	Python, Go, Java, C++, SQL (PostgreSQL), Bash
Backend & APIs	Distributed Systems, Microservices, REST APIs, gRPC, Asynchronous Processing
Infrastructure	Kubernetes, Docker, Terraform, AWS, GCP, CI/CD
Data & Observability	PostgreSQL, Redis, Prometheus, Grafana, Logging, Metrics
Product Collaboration	Worked with PMs, designers, and frontend engineers to scope, build, and launch user-facing features