

(415) 602-9452  
San Francisco, CA  
[contact@karanpratapsingh.com](mailto:contact@karanpratapsingh.com)

# Karan Pratap Singh

[karanpratapsingh.com](https://karanpratapsingh.com)  
[github.com/karanpratapsingh](https://github.com/karanpratapsingh)  
[linkedin.com/in/karan99](https://linkedin.com/in/karan99)

## EXPERIENCE

### Senior Software Engineer

*Curebase (YC S18)*

**Dec 2020 – Present**

*San Francisco, CA, USA*

- Designed scalable REST and GraphQL APIs using TypeScript, Node.js, Redis, and PostgreSQL.
- Led initiative for codebase migration to TypeScript, reducing cost and API latency by 50%.
- Built fault-tolerant, horizontally scalable multi-tenancy for core SaaS product leveraging AWS (ALB, ECS, S3, RDS, SQS, DynamoDB) with a focus on security, GDPR, and HIPAA compliance.
- Utilized Golang, Python, and Terraform to develop business-critical internal tools and simplify SDLC.
- Collaborated with cross-functional teams, including frontend developers, designers, and project managers, to deliver user-focused features following agile methodology.

### Full Stack Engineer

*Smithsonian Institution*

**Apr 2020 – APR 2021**

*Washington D.C., USA*

- Developed a digital asset management platform using React, TypeScript, Node.js, and GraphQL.
- Implemented terabyte-scale data ingestion and streaming with Node.js for over 150 million artifacts.
- Built entire GraphQL data layer and designed client-side enterprise search solution with React.
- Revised CI/CD execution strategy and reduced production Docker container build size by 80%.

### Software Developer

*Stewards*

**Jul 2019 – Jun 2020**

*London, UK*

- Implemented event-driven food delivery mobile application with React Native.
- Consolidated internal sales and custom B2B integrations with React and Node.js.
- Edge-optimized GraphQL API utilizing Google Cloud CDN, increasing KPIs by 20%.

### Freelance Developer

*Self Employed*

**Oct 2017 – Apr 2019**

*New Delhi, India*

- Overhaul and redesign web applications for clients, achieving over 60% customer retention.
- Facilitated API and analytics integration, growing user reach and sales by 40%.
- Drove AWS and GCP adoption at startups, minimizing infrastructure costs up to \$20K.

## ACHIEVEMENTS

- Published books and courses on [Go](#) and [System Design](#) with over 1 million views.
- Open-source contributions, recognized in [React Native \(v0.60\)](#) by Meta.

## EDUCATION

### Bachelors of Technology, Computer Science

*SRM Institute of Science and Technology*

**2017 – 2021**

*Delhi NCR, India*

## SKILLS

**Programming:** Golang, Python, TypeScript, JavaScript, Java.

**Frameworks:** Express.js, Django, Spring Boot, React.js, Next.js.

**Cloud:** Amazon Web Services (AWS), Google Cloud Platform (GCP).

**Other:** Docker, Kubernetes, Terraform, PostgreSQL, Redis, GraphQL.