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# Karan Pratap Singh

Senior Software Engineer

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## SKILLS

<b>Programming</b>	Golang, TypeScript, JavaScript, Node.js, React, GraphQL, Python.
<b>Databases</b>	PostgreSQL, Redis, Neo4j, ArangoDB.
<b>Cloud</b>	Amazon Web Services, Google Cloud Platform.
<b>Tools</b>	Docker, Kubernetes, Terraform, NATS, Apache Kafka.

## EXPERIENCE

### Senior Software Engineer

*Curebase (YC S18)*

**Dec 2020 – Present**

*San Francisco, CA, USA*

- Manage AWS infrastructure as part of the European Union expansion with GDPR and HIPAA compliance.
- Spearheaded infrastructure migration to AWS ECS, reducing cost and API latency by 50%.
- Led initiative for technical debt reduction and complete codebase migration to TypeScript.
- Architected [isolated branch previews](#), improving QA and cross-team collaboration.

### Full Stack Engineer

*Smithsonian Institution*

**Apr 2020 – APR 2021**

*Washington D.C., USA*

- Developed a custom 3D digital asset management solution with cloud native architecture.
- Implemented efficient terabyte-scale data ingestion and streaming with Node.js.
- Designed client-side enterprise search solution with React and GraphQL.
- Revised CI/CD strategy and reduced production containers build size by 80%.

### Software Developer

*Stewards*

**Jul 2019 – Jun 2020**

*London, UK*

- Implemented event-driven food delivery application with React Native.
- Consolidated internal sales and custom B2B integrations with React and Node.js.
- Edge optimized GraphQL API using 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 60% customer retention.
- Facilitated API and analytics integration, growing reach and sales up to 40%.
- Drove AWS and GCP adoption at startups, minimizing infrastructure costs up to \$20K.

## ACHIEVEMENTS

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

## PROJECTS

- [HyperTrade](#) – Distributed cryptocurrency trading bot, passively grows portfolio upto 4% monthly.
- [Proximity](#) – Privacy-focused, open-source social media platform with over 10,000 users.
- [Full Stack Starter Kit](#) – Scalable, GraphQL first template used by 1000+ developers.
- [KCards](#) – Paperless business cards for easy networking for professionals.

## EDUCATION

### SRM Institute of Science and Technology

*Bachelors of Technology, Computer Science and Engineering*

**2017 – 2021**

*Delhi NCR, India*