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Karan Pratap Singh

Senior Software Engineer

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SKILLS

Programming Golang, TypeScript, JavaScript, Node.js, React, GraphQL, Python.
Databases PostgreSQL, Redis, Neo4j, ArangoDB.
Cloud Amazon Web Services, Google Cloud Platform.
Tools 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.
- Led initiative for technical debt reduction and complete codebase migration to TypeScript.
- Spearheaded infrastructure migration to AWS ECS, reducing cost and API latency by 50%.
- 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 500,000 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