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   **Dec 2020 – Present**
Curebase (YC S18)   *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   **Apr 2020 – APR 2021**
Smithsonian Institution   *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   **Jul 2019 – Jun 2020**
Stewards   *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   **Oct 2017 – Apr 2019**
Self Employed   *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   **2017 – 2021**
Bachelors of Technology, Computer Science and Engineering   *Delhi NCR, India*