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Karan Pratap Singh

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EXPERIENCE

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.