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Karan Pratap Singh

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EXPERIENCE

Senior Software Engineer

Curebase (YC S18)

Dec 2020 – Present

San Francisco, CA, USA

- Built fault-tolerant, horizontally scalable multi-tenant environments as part of EU expansion using Docker and AWS (ALB, ECS, S3, RDS, SQS, DynamoDB) with a focus on security, GDPR, and HIPAA compliance.
- Led initiative for technical debt reduction and codebase migration to TypeScript, increasing developer productivity, reducing cost and API latency by 50%.
- Created internal tools such as [preview environments](#) with Golang, Terraform, Cloudflare, and AWS (S3, Lambda, SQS) simplifying the SDLC and achieving better cross-team collaboration.
- Configured CI/CD pipelines with blue/green deployment using AWS CodeDeploy, minimizing downtime.
- Integrated Datadog application monitoring tools in web and backend services for distributed tracing.

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, TypeScript, JavaScript, Node.js, Python, React, GraphQL.

Cloud: Amazon Web Services, Google Cloud Platform, DigitalOcean.

Other: Docker, Kubernetes, Terraform, Apache Kafka, PostgreSQL, Redis.