Sarthak Sharma

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PROFILE

Aspiring Software Developer (Full-stack) passionate about building robust, scalable, high-performance software systems. Talented in frontend & backend development, system design, and various technologies and concepts, including message queues, proxies, load balancers, databases, and DevOps practices.

HIGHLIGHTS OF QUALIFICATIONS

- Familiar with designing resilient distributed systems, knowledgeable in Nginx, Redis, Kafka, communication protocols and horizontal and vertical scaling techniques.
- Competent in web socket, g RPC, and WebRTC for real-time communication between clients and servers. Advanced backend, protocols & pub sub patterns for building applications.
- A refined understanding of Docker, Kubernetes, CI/CD pipelines, monitoring with Prometheus and Grafana, and serverless computing with Aws/Cloudflare.
- Strong analytical skills to identify challenges, propose innovative solutions, and collaborate effectively for high-quality software solutions.

TECHNICAL SKILLS

Languages: Java, TypeScript, JavaScript, Hono, HTML5, CSS
Frameworks: React JS, Next JS, Express JS, Node JS, Tailwind CSS
Databases: PostgreSQL, MongoDB, SQLite
API: REST API & GraphQL
DevOps: AWS, Monorepo, Turborepo, Docker, Kubernetes, GitHub, Git Actions
Tools: Git, Git Hub, MySQL, Postman, Firebase, MongoDB, Prisma, Vercel, Netlify, Cloudflare Workers, AWS Constructs (EC2, S3, CDNs, LB, EKS)

CERTIFICATIONS

Full Stack Development, React JS (Advance and Basics) by Meta, Web Dev-2023 - **Link**

EDUCATION

Mobile Solutions Development - Conestoga College, Canada	May 2023 – Aug 2024
MSc Computer Applications - Subharti University, India	Aug 2019 – Jul 2021
Bachelors in Computer Applications - CCS University, India	Aug 2016 – Jul 2019

PORTFOLIO PROJECTS

Paytm Clone Development:
Tools: Frontend & Backend - Next.js, Express - Auxiliary backends, Turborepo, Postgres Database, Prisma ORM, Tailwind, Next Auth, CI-CD, GitHub Actions

- Spearheaded development of a Paytm/Venmo-like clone application, replicating key features and functionalities of popular digital payment platform.
- Implemented secure payment gateways, encryption protocols, and fraud detection mechanisms to safeguard user transactions and improve platform security.
- Conducted rigorous testing and debugging to identify and resolve software defects, ensuring a seamless user experience across web and mobile platforms.

E-commerce Platform Enhancement:
Tools: React.js, Express.js, Node.js, MongoDB, Stripe

- Developed an enhanced e-commerce platform, improving user experience using 3D product preview, performance, and scalability using Caching, Throttling, Debouncing, and lazy Loading.

- Dashboard with a graphical representation of sales, product inventory, and coupon generation.
- Implemented new features such as product recommendations, personalized shopping experiences, and social media integration to drive engagement and sales.
- Integrated third-party APIs and services for payment gateways, shipping providers, and analytics tools to expand platform functionality and enhance business intelligence.

RELATED EXPERIENCE

Full Stack Developer Internship - Empowered Futures, Remote, Canada   May 2024 - Present
- Comprehensive development of full-stack web applications, emphasizing the importance of code quality and reusability.
- Played a pivotal role in collaborative database design, enhancing project efficiency and scalability.
- Implemented GraphQL to revamp database performance and streamline data retrieval, resulting in significant improvements.
- Engineered highly scalable backend solutions, ensuring project success and reliability, including implementing a serverless backend on Cloudflare using Cloudflare workers.

Freelancer - Success Sensation Technologies Pvt Ltd, India   Mar 2023 - Present
- Developed intricate and highly functional web applications for e-commerce clients, leveraging Next.js and MongoDB.
- Tailored scalable web solutions to meet unique needs of small startups, providing customized development services to support growth and success in competitive market landscape.

Freelancer - Mynaaah Media Pvt Ltd, India   Mar 2023 - Present
- Designed websites for clients in various industries, including catering, events, and logistics, focusing on intuitive user experiences.
- Contributed to developing additional projects, such as internal staff portals, to improve operational efficiency and meet organization's specific needs.

System Engineer - Infosys, India   Apr 2022 – Mar 2023
- Leveraged expertise in full-stack web development with MERN stack to deliver innovative solutions for clients.
- Applied advanced problem-solving skills and proficiency in object-oriented programming to troubleshoot and optimize systems.
- Collaborated closely with cross-functional teams to analyse requirements, design solutions, implement best practices, and fix bugs in production code.

ADDITIONAL EXPERIENCE

Media Ambassador - Indigenous Initiatives, Conestoga College Waterloo   Mar 2024 - Jan 2024
- Led seamless data migration from static drives to cloud servers, optimizing accessibility and storage efficiency for data management.
- Produced captivating graphics and engaging content to amplify visibility and engagement on the college's social media platforms, promoting Indigenous culture awareness.

SpiceJet Airlines- India   Jul 2018 – Apr 2022
Growth Path: Senior Executive / Operations Executive
- Led client handling & engagement efforts for the Cadet Pilot Team, ensuring the best service delivery in collaboration with the Chief Pilot, ensuring compliance.
- Coordinated with the US Embassy on behalf of SpiceJet to secure timely cadet visas, facilitating smooth operations. Demonstrated problem-solving abilities and coordination for emergency landings.

EXTRA-CURRICULAR

Competed in a Hackathon by Conestoga College - Developed a Full-Stack application for Con Hacks   2023