

Sunil Shastry

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Education

University of Saskatchewan

Bachelor of Science - Computer Science

Expected Graduation: June 2026

Saskatoon, CA

Projects

Itihaas | Website | GitHub **React.js** | TypeScript | Express.js | Docker | GraphQL | DigitalOcean | Redis

- Architected and deployed Itihaas, a production-grade full-stack platform using **React (TypeScript)**, **Node.js/Express**, **MongoDB**, **GraphQL**, and **Redis**, designing scalable schemas for complex relational entities and implementing API-key authentication, rate limiting, and email verification. Deployed on a **DigitalOcean VPS with managed MongoDB and Redis**, containerized via Docker.
- Engineered a high-performance API and frontend layer, leveraging Redis + **TanStack Query** caching to reduce API latency by 65%, introduced moderated submission workflows for community contributions, and automated testing & CI/CD (**Jest**, **RTL**, **Supertest**, **k6**, **GitHub Actions**) to ensure reliability and scalable growth.

DinnerDibs

Next.js | TypeScript | Spring Boot | EC2 | RabbitMQ | PostgreSQL | Docker

- Modelled and developed DinnerDibs, a two-sided marketplace using **Next.js (TypeScript)** and **Spring Boot**, modeling buyers, sellers, listings, geolocation search (**PostGIS**), and real-time messaging. Designed scalable REST APIs with PostgreSQL persistence, **Redis** caching, and **RabbitMQ-driven** messaging to support over **10,000 simulated listings**.
- Implemented cloud-ready infrastructure by containerizing services with **Docker** and deploying on **AWS (EC2, S3)**, implementing **CI/CD** pipelines via **GitHub Actions**. Designed modular, domain-driven architecture with observability, object storage separation, and performance-focused database access patterns for production-grade scalability.

Personal Site

| Website | GitHub **Next.js** | TypeScript | Tailwindcss | MDXjs | CI/CD | shadcn-ui

- Designed a website and a **blogging platform** with **Next.js & MDX**, featuring a dynamic blog system with individual posts. Authored an **SEO** optimized **SSR/SSG** site with **GitHub CI/CD** integration to automate build processes with **Netlify**

Work Experience

Qutrix

Nov 2021 – Jan 2022

Software Developer Intern

- Authored and directed multiple user-interface components using React.js and SCSS, improving the application's overall design and responsiveness, **with 95% of the updates successfully deployed to production**.
- Optimized the frontend using React.js by leveraging advanced libraries, **improving rendering performance and SEO by 46%** through code-splitting, and lazy-loading. Implemented dynamic routing, while working with APIs and HTTP requests, with interactive user-interface components and enhancing form validation with regex and unit tests, **increasing validation success by 85%**. Maintained clean, documented, and well-tested code for scalability.
- Coordinated and performed comprehensive testing: **unit, integration, and E2E tests using Jest**. Collaborating with developers and QA testers with Git version control, **Slack** and **GitLab CI/CD** pipelines to streamline structured development.

Freelance

May 2021 – Oct 2022

Software Developer

- Analyzed and documented **client requirements**: Illustrated high and low-fidelity mockups and interactive prototypes responsive to mobile and desktop users using **Adobe XD**. Modeled a functional, responsive, and **SEO-optimized** website using SCSS and JavaScript with Webpack build tool and additional NPM packages ensuring cross-browser compatibility. Hosted on **GitHub** and deployed on Netlify web services

Technical Skills

Languages: JavaScript, TypeScript, Java, SQL, C++, Python.

Libraries/Frameworks: React.js, Next.js, Spring Boot, Hibernate, Vue.js, Node.js

Developer Tools: Git, AWS, Docker, PostgreSQL, MongoDB, Apache CouchDB, Redux/Pinia.