Sunil Shastry

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Education

University of Saskatchewan   **Expected Graduation: May 2026**
Bachelor of Science — Major Computer Science   *Saskatoon, CA*
- Minor in **Theoretical Mathematics**

Work Experience

Qutrix   **Nov 2021 – Jan 2022**
Software Developer Intern
- **Authored** and **directed** multiple user-interface components using **SCSS (CSS preprocessor)**, improving the application's **design** and **responsiveness**, with **75%** of the updates successfully deployed to production.
- Optimized the web application using **React.js** by leveraging advanced and modern libraries, **improving efficiency**. Implemented **dynamic routing**, while working with **APIs** and **HTTP requests**, with interactive user-interface components (calendars, login systems) while enhancing form validation with **regex** and others libraries, reducing runtime bugs by 85%. Maintained clean, documented, and well-tested code for scalability.
- Identified and debugged backend route functionality and middlewares using the **Express.js** framework, optimizing the **backend API performance**, and resolving critical issues. Additionally, conducted comprehensive **API testing** using **Postman** and **Loadtest**, ensuring **reliability**, **scalability**, and seamless **frontend-backend integration**.
- 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 2021**
Frontend 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 compatability. Hosted on **GitHub** and deployed on Netlify web services.

Projects

Itihaas | *Website* | *GitHub*   **React.js | TypeScript | GraphQL | Express.js | Redis | MongoDB | Docker**
- Engineered a **scalable**, **multi-language** frontend with entity timelines using **TailwindCSS** and **shadcn-ui**; programmed smart **caching** with **TanStack Query**, and state-management with **Context API**. Authored custom **MDXjs** based documentation; implemented automated testing **(Jest, RTL)**, and integrated **Sentry** for error tracking with **reCAPTCHA-v2** for user/bot validation.
- Architected a highly-performant backend featuring **Redis caching** (and **PostgreSQL/Prisma** for 'issues' service), dual **GraphQL/REST APIs**, and **rate-limiting** for secure, low-latency responses. Automated deployments via **Github and Netlify CI/CD**, with automated testing **(Supertest, k6)**; authored API documentation with **Swagger**, and integrated **SendGrid** for verification, while ensuring production-grade stability and API security.

DinnerDibs   **Next.js | TypeScript | Spring Boot | AWS | Postgres | Docker | CI/CD**
- Conceptualized and developed a full-stack platform connecting local home cooks with nearby buyers, designed as a fee-free homemade food marketplace with **real-time messaging** and **location-based discovery**. Engineered a modular system architecture - **Next.js** frontend with custom **reusable component library** and a **Spring Boot** service layer - communicating via secure **REST APIs** and **PostgreSQL** persistence.
- Implemented **industry standard infrastructure**, containerized services with **Docker**, and automated continuous deployment pipelines using **GitHub Actions** and **AWS**. Designed and documented an end-to-end system including **authentication**, **messaging**, **listings**, and **search**, adhering to **domain-driven design** and production-grade scalability standards.

Personal Site | *Website* | *GitHub*   **Next.js | React.js | TypeScript | TailwindCSS | MDX | 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.

Technical Skills

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

Libraries/Frameworks: React.js, Next.js, Spring Boot, Redux, Vue.js, Pinia, Node.js, Express.js, PostgreSQL.

Developer Tools: Git, GitHub, Docker, MongoDB, Apache Maven, Apache CouchDB, Linux, Vite, Webpack, Jest, Vitest.