

# 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**
- Relevant coursework: Programming Principles and Practice, Introduction to Computer Organization and Architecture, Mathematical Logic and Computing, Developing Object-Oriented Systems, Intermediate Data Structures and Algorithms, Full Stack Web Programming, Linear Algebra I, Calculus I, Introduction to Mathematical Reasoning

## 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.

### Compass

React.js | Node.js | MongoDB | Express.js | JWT | TailwindCSS | Vitest

- A robust individual & collaborative **full-stack** project management platform with **secure authentication** offering users and teams an intuitive tool to manage **projects** with **personalized workflows**
- Established structured **CRUD operations** with **advanced filtering**, **access control**, and **status management** services for users, projects, and issues, with powerful **authentication** features, including **JWT**, **Nodemailer** for **OTP services**, and testing with **Vitest** and **Postman**.

Personal Site | Website | GitHub

Next.js | React.js | TypeScript | TailwindCSS | MDX | GitHub CI/CD

- 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, Python, C++, SQL, HTML5, CSS.

**Libraries/Frameworks:** React.js, Next.js, Redux, Vue.js, Pinia, Node.js, Express.js, PostgreSQL, Apache CouchDB.

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