

# Sunil Shastry

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## Education

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### University of Saskatchewan

*Bachelor of Science - Computer Science*

**Expected Graduation: May 2026**

*Saskatoon, CA*

- Minor in **Theoretical Mathematics**

## Projects

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### Itihaas | Website | GitHub

**React.js | TypeScript | Express.js | Docker | GraphQL | Redis**

- Engineered a scalable, **multi-language** Indian history archive frontend with smart caching via **TanStack Query**, and state-management with **Context API**. Authored custom **MDXjs** based documentation, and automated testing through **Jest** and **RTL**.
- Architected a highly-performant backend featuring **GraphQL** and **REST APIs**, with regulated **rate-limiting**. Automated deployments via **GitHub CI/CD**, while performing thorough testing via **Supertest** and **k6**. Drafted API documentation via custom docs and **Swagger/Open API**.

### DinnerDibs

**Next.js | TypeScript | Spring Boot | AWS | PostgreSQL | Docker**

- Developed a full-stack platform serving as a marketplace for local home cooks with **real-time messaging** and **location-based discovery**. Engineered a modular system architecture - **Next.js** frontend and a **Spring Boot** service layer - communicating via secure **REST APIs** and **PostgreSQL** persistence, with solid **caching** layers on frontend and backend.
- Implemented industry standard **infrastructure**, containerized services with **Docker**, and automated continuous deployment pipelines using **GitHub Actions** and **AWS** for storage. 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 | 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

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### 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 frontend using React.js by leveraging advanced libraries, **improving rendering performance and SEO by 46%**. Implemented dynamic routing, while working with APIs and HTTP requests, with interactive user-interface components and enhancing form validation with regex, **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

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

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

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