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 **TailwindCSS** and entity timelines, using **TanStack Query** for intelligent **caching** and **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 **CI/CD**, automated testing **(Supertest, k6)**, authored API documentation with **Swagger**, integrated **SendGrid** for verification, and ensured 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**.

Seconds | *Website* | *GitHub*   **TypeScript | Zod | SCSS | APIs | Vitest | TypeDoc | Vite | Axios**

- Developed an application that integrates multiple **third-party** and **native APIs** for **geolocation** and formatted **date** and **time** information. Deployed with **Netlify**, documented with **TypeDoc**, and tested using **Vitest**.

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.