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** and **Balsamiq**, ensuring a visually appealing and user-centric interface while following quality **UI/UX design practices**.
- Modeled a fully functional, responsive, and **SEO-optimized** website using modern **HTML**, **SCSS (CSS Preprocessor)**, and **JavaScript** with the **Webpack** build tool and additional **NPM packages** ensuring **cross-browser compatibility**. Hosted on **GitHub** and deployed on **Netlify** web services.

Projects

Itihaas | *Website* | *GitHub*   **React.js** | **TypeScript** | **Node.js** | **Express.js** | **MongoDB** | **Docker** | **React Query**
- Designed and developed a comprehensive **Indian History full-stack** application with **TailwindCSS**, allowing users to explore **visualized** Indian historical information (dating from 7000 BCE to 1947), references, and articles and allowing developers to consume the **open-sourced backend API** with **security**, **rate-limiting** and **CORS**.
- Conducted extensive **data research**, **refinement**, and **curation** to gather credible historical information for building a database using **MongoDB**. **Optimized** frontend architecture using **caching**, **refetching**, and **invalidations**. Performed thorough **API** testing using **Postman** and **Vitest**.

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.