

Samiran Ghosh

Software Engineer (Entry-Level) | Frontend Developer

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Career Objective

Self-motivated MCA graduate with a strong foundation in full-stack development, state management systems, and open-source tooling. Passionate about building scalable frontend frameworks and contributing to developer tools. Seeking to leverage skills in JavaScript, React, and Agile methodologies in an entry-level software engineering role.

Education

Siliguri Institute of Technology Master of Computer Applications (MCA). CGPA - 7.72	2022-2024
Siliguri Institute of Technology Bachelor of Computer Applications (BCA). CGPA - 9.09	2019-2022

Projects

ToyScript [GitHub](#)

- Created a minimal toy programming language with a simple syntax, leveraging data structures and OOP.
- Implemented key features like *let/const* variable declarations and function definitions using the *fn* keyword.
- Implemented arithmetic operations such as addition, subtraction, multiplication, division, modulus, print statements to output variables and results and created a time function.
- Provided a seamless way to run ToyScript programs using Deno.
- Tech Stack - TypeScript, Deno

Retomizer [GitHub](#) | [npm](#)

- Developed a lightweight React state management library with synchronous/asynchronous state handling and efficient dependency tracking.
- Designed Atoms for isolated/computed state and optimised reactivity using a subscription-based architecture.
- Created intuitive hooks (useAtom, useAtomValue) to minimise re-renders and simplify state management.
- Implemented robust error handling and subscription cleanup.
- Tech Stack - React, TypeScript, Rollup, npm

SeaJS [GitHub](#) | [npm](#)

- Developed a simple lightweight signal-based real-DOM JavaScript frontend framework
 - Refactored the codebase and optimised bundle size using Rollup, reducing the bundle size by 77.338%.
 - Developed a dedicated CLI - [the create-sea-app](#) for streamlining the process of making apps.
 - Implemented unit tests using Jest and published the CLI and the framework on npm.
 - Tech Stack - JavaScript, Rollup, Vite, Jest, Babel, npm, rxjs, HTML, CSS, chalk, fs-extra, commander
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Skills

Languages: JavaScript, Python, HTML, CSS

Libraries: Tailwind CSS, ShadCN, React, SQL, Bootstrap

Tools: Git, GitHub, pip, npm, pnpm, yarn

Certifications

[Legacy JavaScript Algorithms and Data Structures - FreeCodeCamp.org](#)

Privacy and Security in Online Social Media by IIT Hyderabad - NPTEL

[Agile Methodology Virtual Experience Program by Cognizant - Forage](#)

[Software Engineering Virtual Experience by JPMorganChase - Forage](#)

[Goldman Sachs - Software Engineering Job Simulation - Forage](#)

[React + Redux - Sololearn](#)

[SQL - Sololearn](#)