

# Srinjoy Sengupta

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## TECHNICAL SKILLS

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

**Technologies:** Node, React, Next.js, Express.js, Redux, TailwindCSS, WebSockets, SQL, MongoDB

**Tools:** Linux, Git, GitHub, Firebase

## WORK EXPERIENCE

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### Web Developer

Kolkata, India

*SStruence Innovations Private Limited*

*Apr 2024 – Jun 2024*

- Developed key pages for an upcoming eCommerce platform, including the home page, brands page, and customer service page, utilizing **NextJS** and **TailwindCSS**.
- Integrated front-end components with backend services to ensure seamless data flow and functionality.
- Worked closely with the design team to implement responsive, user-friendly interfaces, enhancing user experience across different devices.
- Diagnosed and resolved integration issues between front-end and back-end components, significantly improving system reliability and performance.

## PROJECTS

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### Key Ninja ([App](#) | [Code](#))

*May 2023 – Dec 2023*

- Developed a full-stack web application enabling users to practice, track, and improve their typing speed.
- Implemented features for practice and testing of typing skills, including performance tracking and text customization options.
- Designed and built a detailed statistics feature to provide comprehensive performance analysis and insights.
- Utilized **Next.js** for server-side rendering, **TailwindCSS** for responsive design, and **MongoDB** for efficient data storage and retrieval.

### Chess Eclipse ([App](#) | [Code](#))

*Sep 2023 – Feb 2024*

- Engineered an engaging online multiplayer chess game, allowing users to compete with friends and others in real-time
- Integrated a chess engine capable of analyzing positions, generating moves, and simulating games. Built using Data Structures and algorithms such as minimax, iterative deepening, quiescence search, principal variation search and other graph traversal algorithms to optimize performance and decision-making.
- Implemented the project using **Next.js**, **Express.js**, **Socket.IO**, **TailwindCSS** and **Typescript**

### Collaborative Code Editor ([Code](#))

*Jun 2024 – Present*

- Developed a real-time collaborative editor using **Next.js** and **Express.js**, enabling multiple users to simultaneously edit code.
- Integrated **Firebase** for secure user authentication and data storage, ensuring seamless user experiences.
- Implemented **Socket.io** to facilitate real-time communication and collaboration among users, including live chat functionality.
- Supported multiple programming languages, allowing users to run and test code within the platform.

## EDUCATION

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### Heritage Institute of Technology

Kolkata, India

*B.Tech. in Computer Science and Engineering*

*Aug 2021 – Present*

### Relevant Courses

**CSEN 2201** Design and Analysis of Algorithms (9/10)

**CSEN 3003** Object Oriented Programming (10/10)

**CSEN 2253** Operating Systems Lab (9/10)