Srinjoy Sengupta

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Technical Skills

Languages: C/C++, Java, Python, JavaScript, TypeScript, HTML, CSS, SQL, MongoDB

Technologies: Node, React, Next JS, Express JS, Redux, TailwindCSS, WebSockets

Tools: Linux, Git, GitHub, Firebase

Work Experience

Web Developer Kolkata, India

SStruence Innovations Private Limited *Apr 2024 – Jun 2024*

- Developed multiple pages for an eCommerce website, including the home page, brands page, and customer service page, using **NextJS** and **TailwindCSS**.
- Integrated front-end components with backend services to ensure seamless data flow and functionality.
- Collaborated with the design team to implement responsive and user-friendly UI/UX.
- Troubleshot and resolved issues related to front-end and back-end integration, enhancing overall system reliability.

Projects

Key Ninja (*App* | *Code*)

- 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 **NextJS** for server-side rendering, **TailwindCSS** for responsive design, and **MonngoDB** for efficient data storage and retrieval.

Chess Eclipse (*App* | *Code*)

- Engineered an engaging online multiplayer Chess game, allowing users to compete with friends and others in real-time
- Integrated intuitive user interfaces with **TailwindCSS**, enhancing the visual appeal and usability of the game.
- Utilized **Socket.IO** for real-time communication, allowing players to make moves and interact with opponents instantaneously.
- Implemented the project using **NextJS**, **ExpressJS**, **Socket.IO** and **TailwindCSS** ensuring smooth and responsive gameplay.

BlunderMaster

- Developed a sophisticated chess engine capable of analyzing positions, generating moves, and simulating games.
- Implemented data structures and advanced algorithms such as minimax, alpha-beta pruning, iterative deepening, quiescence search, transposition tables, principal variation search to optimize performance and decision-making.
- Integrated with **Chess Eclipse** for seamless interaction, providing players with insights and analysis during gameplay.
- Developed the project using **Typescript**.

Education

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)**