Srinjoy Sengupta

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Education

Heritage Institute of Technology — Kolkata, India
B.Tech. in Computer Science and Engineering — *Sep 2018 – Jun 2023*

Relevant Courses

CSEN 2201 *Design and Analysis of Algorithms* **(9/10)**
CSEN 2251 *Design and Analysis of Algorithms Lab* **(10/10)**
CSEN 2253 *Operating Systems Lab* **(9/10)**
CSEN 2151 *Data Structure and Algorithms Lab* **(10/10)**
CSEN 3003 *Object Oriented Programming* **(10/10)**
CSEN 3053 *Object Oriented Programming Lab* **(10/10)**
CSEN 3151 *Database Management Systems Lab* **(9/10)**

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

Projects

Key Ninja

- Developed a full stack web application that enables users to practise, track and improve their typing speed.
- Implemented features include the ability to practise or test typing which will be tracked and also allows customization ogf the text.
- Built a statistics feature that gives a detailed analysis of the performance.
- Utilized technologies such as **NextJS**, **TailwindCSS** and **MonngoDB** to deliver an amazing user experience.

Chess Eclipse

- 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**.