Navpreet Singh

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EXPERIENCE

Collaborative Undergraduate Research Team   Jan 2024 – June 2024
Graphic Era University   *Dehradun, UK*

- Developed a secure chat application using Node.js, Express.js, Socket.io, Crypto.js, and JSEncrypt for real-time, end-to-end encrypted communication.
- Implemented both asymmetric encryption (RSA) and symmetric encryption (3DES) to ensure high security and privacy of user messages.
- Created a user-friendly interface with jQuery and Bootstrap, and utilized localStorage for secure key storage on the client side.

PROJECTS

Gym App | *React, Tailwind CSS*   July 2024 – August 2024

- Developed a responsive gym application utilizing ***React*** for dynamic component rendering and ***Tailwind CSS*** for efficient styling.
- Implemented modular components and ***state management*** to enhance performance and user experience.
- Focused on creating an intuitive user interface with ***modern design*** principles and ***responsive design*** techniques.

Real-Time Video Conferencing Application | *Next.js, TypeScript, Tailwind CSS*   October 2024 – Present

- Built a Zoom-like application using ***Next.js, TypeScript***, and ***Tailwind CSS*** with responsive design and real-time meeting features.
- Implemented secure authentication with ***Clerk*** and real-time interactions using the ***getstream API***.
- Designed features for scheduling, recording, and managing meetings with robust participant controls.

Excuse Factory App | *React, Express.js*   Novemeber 2024 – Present

- Developed an Excuse Generator web app using ***React*** for the frontend and ***Express.js*** for the backend.
- Implemented category-based random excuse generation, allowing users to select specific excuse types.
- Created a ***dynamic*** and ***responsive UI*** with React, connecting to the backend API for ***real-time data retrieval***.

Chat Android App | *Kotlin, Android Studio, Gradle, Jetpack Compose, Ktor, MongoDB*   April 2024 – May 2024

- Developed an Android app using ***Kotlin*** and ***Jetpack Compose*** for a modern, responsive UI.
- Utilized ***Ktor*** for networking and integrated ***MongoDB*** for efficient data storage and retrieval.
- Managed project dependencies and builds with ***Gradle*** in ***Android Studio***.

TECHNICAL SKILLS

Languages: Java, JavaScript, Typescript, HTML/CSS, Kotlin, C/C++, SQL
Frameworks: React, Express.js, Next.js, Jetpack Compose, Ktor, Bootstrap
Developer Tools: Git, Docker, Android Studio, Node.js, npm, LocalStorage, VS Code, IntelliJ
Libraries:Tailwind CSS, JSEncrypt, Crypto.js, Socket.io JQuery, Dagger Hilt

EDUCATION

Graphic Era(Deemed To Be) University   Dehradun, UK
Bachelor of Technology in Computer Science   *Aug. 2020 – June 2024*