Srijan Dhak

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EDUCATION

Indian Institute of Information Technology, Kalyani August 2023 – Present
B.Tech. Computer Science & Engineering *CGPA: 9.5/10*

COURSEWORK

Courses: Object-Oriented Programming, Data Structures and Algorithms, Linear Algebra, Probability and Statistics, Computer Organization and Architecture, Formal Languages and Automata Theory, Numerical Analysis

PROJECTS

qrgen | *Kotlin, Jetpack Compose, ZXing, CameraX, MLKit*   GitHub May 2025

- Developed a modern Android QR code app using Kotlin, Jetpack Compose, and CameraX, supporting real-time scanning and QR generation with an intuitive Material 3 UI.
- Integrated MLKit and ZXing for accurate QR detection and generation, enabling features like camera switching, dynamic quality adjustment, and gallery saving.
- Engineered a smooth, user-friendly interface with expandable content sheets and clipboard support, enhancing usability and mobile UX responsiveness.

cfkit | *Node.js, Axios, Inquirer, Moment*   GitHub January 2025

- Designed and developed a CLI-based competitive programming toolkit in Node.js that interfaces with the Codeforces API to fetch contests, problems, and blogs directly from the terminal.
- Implemented utilities for contest management and automated problem file generation, significantly streamlining the workflow for daily practice and participation in Codeforces rounds.
- Built robust code judging functionality within the CLI, enabling users to compile and test solutions against custom or parsed test cases with instant feedback.

emu8 | *C++, SDL2*   GitHub April 2024

- Created a fully functional CHIP-8 emulator in C++ using SDL, capable of running classic CHIP-8 games and programs.
- Designed the emulator with customizable features such as CPU clock speed, beeper sound frequency, screen size using header files.
- Implemented plans for future enhancements such as performance optimizations and developing a GUI.

SKILLS

Languages: JavaScript, TypeScript, Kotlin, Rust, C, C++, Bash, Python, Dart, Java

Tools: Android Studio, Flutter, Node.js, Git

Frameworks: React, Next.js, Flutter, React Native

Libraries: Material UI

CERTIFICATES

Postman API Fundamentals Student Expert