Raunak Kumar Singh

Software Engineer

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EDUCATION

- **Indian Institute of Information Technology Kottayam**   Kottayam, IN
  Computer Science Engineering, GPA 7.10   2020–2024

SKILLS SUMMARY

- **Languages**:   C++, JavaScript, Basic Python
- **Frameworks**:   ReactJS, NodeJS, ExpressJS, Web3, BootsTrap, Material UI
- **Tools**:   Docker,GIT & GITHUB, MySQL, MongoDB, Hardhat, Alchemy

WORK EXPERIENCE

Project Engineer | C-DAC Banglore   *March 2024-Present*
- Contributed to the development of a quantum network simulator.
- Enhanced quantum circuit and algorithm execution on GPUs for higher qubit performance.
- Explored cutting-edge quantum technology and high-performance computing

FACTS-H | Funded by Mozilla | link %   *Jan 2024-March 2024*
- Responsive Website: Developed a responsive website for Facts-H Lab with ReactJS
- Scalable Design: Used modular, component-based architecture for easy maintenance and scalability.
- Efficient Deployment: Set up Docker, automated GitHub actions, and configured Nginx on VPS.

KEY PROJECTS

DSA-SHEET ⓖ | MERN Stack | link %   *June-2022*
- DSA SHEET is a website that helps individuals to **learn DSA** in a constructive and effective manner.
- Implemented secure Login, SignUp and Forget password with **JWT authentication**.
- Sheet Data is also **Cached** to ensuring a seamless and fast access experience, even in unstable connection.
- **250+ real-time users** on the DSA sheet solve questions from this website.
- Tech: **ReactJS, NodeJS, ExpressJS, MongoDB, POSTMAN, Bootstrap, Material UI**.

MT-MX Converter ⓖ| Microservices | Video ▶   *August-2022*
- Develop **microservices** to validate, and convert old **MT103** payment receipts into **Pacs008** formats.
- Establish secure communication of REST API endpoints for receiving MT103, delivering Pacs008 format.
- Implented microservices in docker container and hosted container on AWS.
- Tech: **NodeJS, Regex, Docker, Nginx, AWS**.

CypherWallet ⓖ | NPM | NodeJS   *January-2023*
- Develop a Node.js script to creates and imports **BIP39 mnemonic** wallets, lists wallets, and retrieves Bitcoin balance and transactions and connect with blockchain test network using BlockCypher API.
- Implement functionalities to generate BTC addresses for wallets and store them locally using Sqlite3.
- Tech: **NodeJS, ExpressJS, BIP39, Better-Sqlite3**.

ACHIEVEMENT

- Runner up in Nest Digital **Microservices Hackathon** held at Kakanad Kochi.
- Secured the **3rd rank** in the coding contest held in College technical fest.
- Qualify two rounds in L&T technology services hackathon selected in **129 out of 3500+** students.
- **LeetCode**(400+ question) % | **Codeforces(1300+)** Pupil % | **Codechef(3*)** %
- Elected as Placement Coordinator at IIIT Kottayam.

CERTIFICATION

- Blockchain and its Applications (NPTL) %
- Data Structure & algorithm (Udemy) %