

# Chinmoy Paul

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## Skills

**Languages:** Java, JavaScript, HTML/CSS, SQL .

**Technologies & Tools:** SpringBoot, Spring, Spring Security, RESTful APIs, Maven, Docker, Postman ,MySQL , Git .

## Education

**Indian Institute of Technology Guwahati**

Sep 2023 - present

B.S. in Data Science and Artificial Intelligence.

Relevant Coursework: C Programming, Object Oriented Programming, Databases, Data Structures and Algorithms .

## Project Work

- **Cone Trading – Crypto Trading Platform (Back-End)** 🚀
  - **Technologies:** Java 17, Spring Boot, Spring Security, MySQL, Maven, Razorpay, Stripe, CoinGecko API .
  - **Secure Authentication:** Implemented JWT-based authentication, Two-Factor Authentication (2FA), and OTP-based password reset .
  - **Real-Time Crypto Data:** Integrated CoinGecko API to fetch and display real-time prices of cryptocurrencies .
  - **Trading & Transactions:** Enabled seamless buy/sell transactions with automated wallet balance updates .
  - **Payment Integration:** Integrated Razorpay and Stripe for wallet recharges and bank withdrawals .
  - **Portfolio Management:** Developed a structured MySQL database schema to track holdings, transactions, and balances .
  - **Watchlist Feature:** Enabled users to create and manage a personalized watchlist for tracking favorite cryptocurrencies .
  - **RESTful API Development:** Built and secured API endpoints for asset management, payment tracking, and transactions.
  - **Security & Performance:** Leveraged Spring Security, encrypted transactions, and optimized database interactions for efficiency .
  - **Deployment & Automation:** Used Maven for dependency management, project builds, and deployment automation.
- **Real-Time Chat Application (Full-Stack)** 🚀
  - **Technologies:** Java 17, Spring Boot, Spring WebSocket, STOMP, SockJS, HTML5, Bootstrap, JavaScript .
  - **Real-Time Messaging:** Developed a WebSocket-powered chat system for instant message broadcasting.
  - **WebSocket & STOMP Integration:** Implemented Spring WebSocket with STOMP protocol for efficient message routing.
  - **Responsive UI & Styling:** Designed a Bootstrap-based chat interface with auto-scroll, message bubbles, and enter-to-send functionality.
  - **Scalable Backend:** Built RESTful APIs and WebSocket endpoints using Spring Boot to handle message flow.
  - **Optimized Client Compatibility:** Used SockJS to provide WebSocket fallback for browsers that do not support native WebSocket connections.
  - **Clean Code Architecture:** Utilized Lombok to reduce boilerplate code and improve maintainability.

## My Coding Profiles

- **CodeChef:** [chinmoypaul](https://www.codechef.com/users/chinmoypaul) Completed 950+ challenges, joined 35+ contests, and attained a peak rating of 1444.
- **Codeforces:** [chinmoypaul](https://www.codeforces.com/profile/chinmoypaul) Solved 150+ problems, competed in 35+ contests, and achieved a highest rating of 1008.