SAIF ALI KHAN

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EDUCATION

Degree	Institute/School	CGPA/%	Year
Bachelor of Computer Application	Dayanand Academy of Management Studies, Kanpur	8.19/10.0	2025
Intermediate (XII)	St. Aloysius High' School, Kanpur (CISCE/ISC)	78%	2022
High School (X)	St. Aloysius High' School, Kanpur (CISCE/ISCE)	91%	2020

PROJECTS

Smart Contact Manager | *Java, Spring Boot, Thymeleaf, MySQL* | ⌂   Jan 2025 - Present

- A secure, full-stack **contact management** web application, which allows users to securely create, update, view and delete contacts through responsive user interface.
- Implemented secure **user authentication** by integrating **OAuth 2.0** with **Google** and **GitHub**, for streamlined and secure user login, also implemented a **fallback** self-signup and login mechanism.
- Designed responsive **user interface** using **Thymeleaf**, **Tailwind CSS**, and **Flowbite** with dark/light theme.
- Utilized **JPA** and **Hibernate** for efficient data persistence facilitating smooth interactions with the **MySQL** database to ensure data integrity. The project uses **Maven** as a build tool.
- Implemented advanced contact management features, including **search**, **filter**, and **pagination**, allowing users to efficiently navigate and manage large contact lists.
- Integrated **Cloudinary** for **image storage**, enabling users to upload contacts profile pictures while saving them, users can also see a profile page for themselves.

mathJX | *Java, Mathematics, Algorithms* | ⌂   March 2025 - Present

- Developing a comprehensive **Java-based mathematical library**, implementing core concepts such as **Logarithms**, **Sieve of Eratosthenes**, F**ast Exponential**, and many other efficient algorithms, like **Newton-Raphson**, **Runge-Kutta**, **forward differences**, **Gauss-Seidel**, etc.
- Optimized **algorithms** by incorporating checks for different scenarios, like **limiting iterations to square root** of target integers while finding prime numbers.
- Using **IntelliJ IDEA** for development, with **JUnit Jupiter** leveraging robust features to write, test, debug the mathematical functions implemented effectively.
- The library is designed to serve as a tool, to understand and implement mathematical concepts programmatically.

TECHNICAL SKILLS

Languages: Java, C/C++, JavaScript, SQL, Golang
Technologies/Frameworks/Libraries: Spring Boot, Hibernate, JUnit, Tailwind CSS, MySQL, REST API
Tools/Others: Linux, Git, GitHub, Thymeleaf, Flowbite, HTML/CSS, Maven, Markdown
Interests: Rust, Python, Solana, Physics, Haskell, Mathematics, Neovim

ACHIEVEMENTS

- Secured **4th** position in **CODE MENIA 2024**, a coding event held at **Jagran Institute of Management, Kanpur**, among participants from over 10 different colleges. | Link ↗
- Contributed to open-source projects, like adding **partial controller support** to a **python-based** game, fixing and improving **Math** class in **Symbolic PathFinder**. | Link ↗
- Worked for **2 months** with a company on their Ed-Tech Startup website, developing and designing frontend components using **HTML**, **CSS**, **JavaScript**, **Bootstrap**, and **Swiper.js**.
- Served as **Student Coordinator** and **Technical Head**, managing, video editing (**After Effects**, **DaVinci Resolve**, **Clipchamp**), at my college events.
- Undertook **trainings** and **workshops** in technologies like **Java**, **C/C++**, **JavaScript**, from platforms such as **Coursera**, **Internshala Trainings** and others. | Link ↗
- Active member of the developer community **100xDevs - Cohort 3.0**

PROFILE LINKS

Leetcode | **Codeforces** | **Codechef** | **HackerRank** | **GeeksforGeeks** | **Hacker Earth** | **Atcoder** | **USACO Guide**