## Gauray Arora

New Delhi, India • +91 9818634340 • gauravarora1906@gmail.com • https://arora19.github.io • www.linkedin.com/in/gaurav-arora1906

#### **EDUCATION**

### Pennsylvania State University, State College, PA, USA

Aug 2023

Bachelor of Science — Computer Science

### **PROJECTS**

#### AI- Powered Chatbot (Python, Flask, HTML, CSS, JavaScript)

Sep 2023

Developed a AI- driven web-based chatbot application using the Llama-2 model from Meta served by Anyscale API, integrated within a Flask web framework. The chatbot provides real-time responses to user queries, enhancing user engagement and offering immediate information.

- Designed a responsive and user-friendly interface using HTML and CSS, ensuring a seamless experience.
- Integrated the Llama-2 model for real-time chat responses, enhancing the utility of the application.
- Implemented error handling and feedback mechanisms, ensuring the user is informed during any API or system issues.

# Pennsylvania State University, State College, PA Storage System for Cryptocurrency (Clanguage)

May 2023

The project involves implementing a secure and efficient storage system for a cryptocurrency startup using 16 military-grade hard disks configured as JBOD (Just a Bunch of Disks).

- Implemented a module to handle JBOD operations, encoding commands, translating addresses, and seeking blocks and disks. -
- Designed and developed a caching system to minimize disk access time, featuring dynamic allocation, cache lookup, and cache creation and destruction functionality.
- Created network communication functions for reading and writing data to a server, facilitating remote manipulation of JBOD systems.

## Hotel Management Web Application (MySQL, PHP, HTML)

Jan 2022

Developed a web-based interface for hotel reservations management.

- Integrated functionalities for real-time reservation CRUD operations within a MySQL database.
- Implemented robust database practices, including the use of primary keys, to maintain data integrity and ensure consistent record management.

## Room Scheduling application (Java Swing, SQLite)

Dec 2021

Developed a Room Scheduling application using Java Swing and object-oriented design principles. to facilitate the reservation of rooms in an educational institution. The application integrates with SQLite for backend storage.

- Developed a GUI using Java Swing, incorporating elements like dropdown lists, buttons, labels, and tabs.
- Integrated SQLite as a backend database using JDBC, showcasing database design and SQL query skills.
- Implemented features like waitlisting, showcasing problem-solving and user-experience considerations.
- Collaborated with potential end-users (faculty) to gather requirements and feedback.

#### **SKILLS**

Programing languages: C, C++, Java, Python, HTML, CSS, Javascript, PHP

Database: MySQL, DBMS

**Tools/ Frameworks:** git, Github, GDB, Flask, Vim **Other:** API integration, LLM application, Linux

#### **LEADERSHIP**

## Global Lion Mentor (Penn State)

- Mentored first-year international students in foundational computer science concepts, using C++ and Java.
- Designed and facilitated hands-on coding workshops, covering topics such as data structures, algorithms, and object-oriented programming.
- Utilized modern development tools, including IDEs like Visual Studio and version control systems like Git, to provide students with industry-relevant experiences.