

# Gaurav Arora

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## SUMMARY

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Highly motivated and detail-oriented computer science graduate seeking an entry-level software engineering position. Offering a solid foundation in programming languages, database management, and project development, with a passion for problem-solving and delivering efficient solutions.

## EDUCATION

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**Pennsylvania State University**, State College, PA  
Bachelor of Science — Computer Science

Aug 2023

**Braeburn School**, Nairobi, Kenya  
A-Level

Jun 2018

## PROJECTS

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**Pennsylvania State University**, State College, PA  
**Mdadm Linear Device (C)**

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).

- **Disk Manipulation:** Implemented a module to handle JBOD operations, including encoding commands, translating addresses, and seeking specific blocks and disks.
- **Caching Mechanism:** Designed and developed a caching system to minimize disk access time, featuring dynamic allocation, cache lookup, and cache creation and destruction functionality.
- **Network Communication:** 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)**

Dec 2021

- Developed a web-based interface for hotel reservations management.
- Implemented features for inserting, deleting, and updating reservations in a MySQL database.
- Ensured data integrity and security by utilizing proper database management techniques.

## SKILLS

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C, C++, Java, Python, HTML, CSS, MySQL, PHP

## LEADERSHIP AND INVOLVEMENT

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**Global Lion Mentor (Penn State)**

- Mentored and provided guidance to first year international students.
- Facilitated workshops and fostered a supportive learning environment.

**House Captain (Braeburn School)**

- **Leadership & Coordination:** Led and represented the house, organizing and coordinating activities, events, and initiatives that fostered community, teamwork, and school spirit among students.
- **Communication & Collaboration:** Acted as a liaison between students, staff, and house leadership, working with diverse teams to create an inclusive and motivating environment.