

# GUNDEEP OBEROI

 [gundeepoberoi.com](https://gundeepoberoi.com) ♦  [gundeepsoberoi@gmail.com](mailto:gundeepsoberoi@gmail.com) ♦  [linkedin.com/in/gundeepoberoi](https://linkedin.com/in/gundeepoberoi)

## EDUCATION

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**BSc (Hons) Computer Science, The University of Manchester**

September 2022 - June 2025

1<sup>st</sup> Year Grades - 78.5 % (Predicted: First Class Honours)

- Year 1: Gained knowledge about fundamental concepts and techniques that underlie modern programming, operating systems, data science, computer architecture (32 bit ARM architecture – using Bennett), computer engineering (using Cadence) and abstract mathematics.
- Year 2: Acquiring familiarity with database systems, artificial intelligence, processor microarchitecture, algorithms, data structures, programming languages, machine learning, distributed systems and visual computing.

**CBSE AISSCE, Shadley Public School**

April 2020 - July 2022

12th Grade (Equivalent to A-Levels)

- Awarded with the title of *All-Rounder* of the year and achieved highest grades in the class of 2022.
- Subjects: Computer Science(100%), English Core(95%), Mathematics(98%), Chemistry(99%), Physics(95%).

## PROJECTS

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**Study Buddy** | *HTML, Bootstrap, JavaScript, PHP, MySQL*

- Collaborated in a team of 6 to develop a web based application for creating and joining study groups.
- Implements user sessions (registration and logging in), PHPMailer, search and filter functions and security features including password requirements, email authentications, password recoveries and data encryption.

**FoodScan** | *Python (PySpark), SQL, Palantir Foundry*

- Deployed the Palantir's Foundry on a food distribution platform, as a team of 3 at *GreatUniHack2022*.
- Performs stock management using relational databases interfacing with the user as forms and reports.
- Won the prize of *Best Hack for Social Good 2022* sponsored by BlackRock.

**RobTheCop** | *Python (Tkinter)*

- Programmed the game in Python using Tkinter for GUI with features including Movement of Objects, Movements by User, Collision Detection, Pause Menu, Scoring System, Cheat Codes, Saving/Loading the game, Boss Key, Leader board and Git Version Control.

**Selfish (Space Edition)** | *Java*

- Implemented the console-based card game using Test-driven development based on a UML class diagram, featuring game engine, players, card decks, exception-handling and data serialisation.

**Console-based Chess** | *Java*

**Library Management Software** | *Python, MySQL*

**Genre Predicting Genie** | *Python, Natural Language Processing, Machine Learning*

## EXPERIENCE

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**Treasurer**

August 2023 - Present

Hackchester - Cyber Security Society

Manchester, United Kingdom

- Administering the Society's finances as required by its activities.
- Providing monthly financial reports to the Committee.
- Working with the President to gather financial support for the Society through sponsorships.
- Maintaining an annual financial report that details the Society's expenditures and incomes.

## EXPERIENCE (CONTINUED)

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### Bar Staff

Juanita Promotions Limited

April 2023 - Present  
*Manchester, United Kingdom*

- Preparing and serving beverages to 850+ customers in a friendly and professional manner, twice a week.
- Monitoring and maintaining inventory levels of beverages and bar supplies, promptly restocking as needed.
- Handling cash transactions, and processing card payments accurately, with an average of £2500 per night.

### Temporary Retail Assistant

University of Manchester Gift Shop (Infinity Inc.)

11 July 2023 - 21 July 2023  
*Manchester, United Kingdom*

- Facilitated 400+ graduates in a friendly and courteous manner, providing excellent customer service.
- Replenished and printed university merchandise for the sales floor, ensuring products were neatly organized.
- Awarded with 32% bonus for achieving the daily sales target of £3300 on average.

## VOLUNTEERING

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### PASS (Peer Assisted Study Sessions) Leader

The University of Manchester (Peer Support)  
Computer Science Year 1 Scheme

August 2023 - Present  
*Manchester, United Kingdom*

- Devising and running weekly sessions with a co-leader to facilitate the learning of around 12 first year students.
- Offering extra-curricular advice, giving pastoral support and helping with personal and academic issues.
- Attending regular debriefs with student coordinator, staff coordinators and the lead contact officer to provide feedback and network with fellow PASS leaders.

### Events Coordinator

RAG Committee (The University of Manchester Students' Union)

June 2023 - Present  
*Manchester, United Kingdom*

- Liaised with the rest of the committee and the volunteering department of the Students' Union in the annual meeting to decide on the charities and the challenges for the upcoming academic year.
- Organising events in coordination with multiple societies and RAG committees from other universities.
- Coordinating event logistics, including venue selection and vendor negotiations, ensuring cost-effectiveness.
- Demonstrating creativity and innovation in event concepts and themes.

### Hall Executive & Treasurer

Dalton-Ellis Hall (The University of Manchester Students' Union)

October 2022 - October 2023  
*Manchester, United Kingdom*

- Gathered feedback from 260+ Students and reported on a wide range of topics.
- Coordinated with fellow representatives on joint areas of concern to work towards a solution.
- Acted as the financial lead – Managed £14,110 budget and approved/rejected proposals for spending.
- Organised more than 27 events/activities/trips to increase sense of community within the halls.

## SKILLS

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- Programming Languages: Python, HTML, CSS, JavaScript, PHP, SQL, Java, Verilog (HDL),  $\text{\LaTeX}$
- Technologies: MySQL, phpMyAdmin, Cadence, Bennett, Visual Studio, Eclipse, Project Jupyter
- Proficient in collaborative software development, Git, and project management methodologies.
- Learning the fundamentals of penetration testing and defensive security, using HackTheBox challenges.
- Working effectively with others and readily accepting individual accountability.
- Ability to manage and prioritise own workload in meeting requirements/deadlines.
- Languages: Trilingual – English, Punjabi, Hindi