

# Jatin Gera

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*Current student looking to join the workforce to gain real-world experience and pursue a career that provide challenges and opportunities for growth. Highly organized with ability to prioritize tasks and complete them on time both individually and collaboratively . Seeking an opportunity to work in a dynamic and stimulating environment where i can make a meaningful contribution to company's growth and further my professional development.*

## EDUCATION

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**BACHELOR OF SCIENCE (B.Sc.) : COMPUTER SCIENCE**  
Coventry University , Coventry

*Expected graduation Sep 2025*

**MASTERS OF SCIENCE (M.Sc.) : APPLIED COMPUTER SCIENCE**  
Srh Hochschule , Heidelberg , Germany

*Placement Year Oct 2023 – July 2024*

### **Relevant Coursework**

- Big Data Programming
- Advanced Algorithms
- Object Oriented Programming
- Database Systems
- Project Management
- Data Science
- Programming and Algorithms
- Software Engineering
- Operating System and Security
- Theory of Computation
- Introduction to Artificial Intelligence
- Mathematics for Computer Science
- Computer Architecture and Networks
- Software Design

### **Extracurricular Activities**

- Computer Science Activity Led Learning Projects
- Member of Coventry University Coding Society
- Volunteered at British Heart Foundation

## TECHNICAL SKILLS

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- **Programming Languages:** Python , JavaScript
- **Web Development :** Flask (Python), Familiar with MERN Stack (MongoDB, Express.js, React, Node.js)
- **Database Management:** SQL (SQLite) , MySQL , MongoDB
- **Tools:** RStudio, MATLAB, Assembly IDE, PyCharm, Visual Studio, Unity, Codio, Jupyter
- **Operating Systems:** Windows, Linux
- **Cloud :** Google Cloud , AWS
- **Software Development Standards:** Object-Oriented Programming (OOP), Scrum Methodology
- **Version Control :** Git

*Note: Actively exploring and gaining proficiency in MERN Stack and Flask for modern and efficient web development.*

## ACADEMIC PROJECTS

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### HOTEL MANAGEMENT SYSTEM

DEC – JAN 2024

- Developed a comprehensive hotel management system with a focus on streamlined booking and reservation processes.
- Implemented web routing to handle different pages and functionalities within the application, enhancing user navigation and experience.
- Utilized Python (Flask) for the backend, HTML/CSS for the frontend, and MySQL for the database.
- Implemented user authentication to ensure secure access to the system, incorporating features like user registration and login functionalities.
- Designed an intuitive user interface for managing bookings, including check-in and check-out dates, number of guests, and room selection.
- Collaborated with a MySQL database to store and retrieve booking information efficiently.
- Currently in development with ongoing feature additions and enhancements.

### TASK MANAGEMENT SYSTEM

JAN – FEB 2024

- Developed a dynamic and user-friendly task management system using the MERN (MongoDB, Express.js, React, Node.js) stack.
- Implemented a robust Node.js (Express) backend for efficient API handling, user authentication, and seamless data flow.
- Utilized React for building responsive and interactive frontend components, enhancing the overall user experience.
- Integrated MongoDB for optimized data storage and retrieval, focusing on efficient task management functionalities.
- Introduced secure user authentication mechanisms, including login, registration, and personalized user profiles, ensuring a reliable and personalized experience.

### PYTHON BOT

JAN – APR 2022

- Developed a fully interactive chatbot using Python on PyCharm which allowed users to perform various tasks such as getting weather and news updates, converting text into animation, and performing a countdown.
- Integrated voice assistant functionality, leveraging Python text-to-speech and speech recognition libraries for a seamless user experience.
- Expanded capabilities to execute computer tasks, including web searches and opening applications, enhancing user convenience.
- Utilized functions, loops, and conditionals, and conducted manual validation for checking accuracy of weather predictions.
- Leveraged the chatbot for text animation in other academic projects.

### SOFTWARE ENGINEERING

SEPT – JAN 2023

- Led a collaborative group project focusing on software engineering principles and the end-to-end software development process.
- Implemented agile Scrum methodology, rotating roles weekly to ensure a comprehensive understanding of all roles involved.
- Designed and created interface mock-ups, database schemas, and Data Flow diagrams for the project, emphasizing a structured and scalable approach.
- Delivered a comprehensive final project presentation and report, showcasing the team's proficiency in software development standards and project management.

### GOOGLE CLOUD LEARNING PROJECT

FEB – MAR 2024

- Completed a comprehensive Google Cloud course, gaining a brief overview of cloud services like SQL, Storage, Kubernetes, App Engine etc .
- Focused project on comparing Google Cloud SQL and Storage, implementing basic functions for performance and scalability assessment.
- Developed practical proficiency in deploying applications on Google Cloud Platform .
- Demonstrated proficiency in navigating the Google Cloud Console for practical application of acquired skills.
- Successfully completed the project, showcasing broad knowledge with a specific focus on SQL and Storage.

### BIG DATA PROGRAMMING PROJECT

JAN – APR 2023

- Implemented a big data programming project using MATLAB
- investigated the use of big data techniques.
- Processed data in parallel and sequentially, utilizing MATLAB's capabilities for analysis and exploration.
- Analysed climate model data and estimated memory and processor requirements .
- Did extrapolation and data visualization.