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

BACHELOR OF SCIENCE (B.Sc.) : COMPUTER SCIENCE *Expected graduation Sep 2025*
Coventry University , Coventry

MASTERS OF SCIENCE (M.Sc.) : APPLIED COMPUTER SCIENCE *Placement Year Oct 2023 – July 2024*
Srh Hochschule , Heidelberg , Germany

Relevant Coursework

- Advanced Algorithms
- Object Oriented Programming
- Advanced Database Systems
- Data Science
- Programming and Algorithms
- Software Engineering
- Operating System and Security
- Software Architecture and Development
- Big Data Programming
- Project Management

Extracurricular Activities

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

TECHNICAL SKILLS

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

Note: Actively exploring and gaining proficiency in modern technologies for innovative and efficient web development.

ACADEMIC PROJECTS

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 MANAGER **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.

BUSINESS MANAGEMENT SYSTEM **FEB – MAR 2024**

- Spearheaded the development of a robust Business Management System tailored for privately-owned small-scale enterprises.
- Leveraged Flask, HTML, CSS, and JS to craft an intuitive user interface, ensuring a seamless and user-friendly experience.
- Integrated Google Sheets API for real-time data management, enabling efficient tracking of Buyers, Orders, and Items.
- Implemented CRUD operations to facilitate quick and effective management of business transactions and customer data.
- Conducted detailed analysis using Flask web routing, providing actionable insights into sales, outstanding balances, and order fulfilment.

RESTURANT RATING PORTAL **MAY – JUNE 2024**

- Collaborated with the backend team to develop a restaurant rating portal.
- Used Python Flask and MySQL for the backend, creating secure and efficient API endpoints for user interactions and restaurant ratings.
- Implemented React for the frontend to build a responsive and user-friendly interface.
- Utilized a microservices architecture to ensure scalability and maintainability of the system.
- Designed and implemented database schemas, interface mock-ups, and Data Flow diagrams.
- Developed and managed API calls for user and rating services.
- Presented the final project, showcasing adherence to software development standards and effective project management.

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.

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.