

# Mehraj

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## PROFESSIONAL SUMMARY

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First Class BSc Computer Science graduate skilled in **software engineering and software development** along with high proficiency in Web Development and Data analytics. Proficient across various programming languages such as **Python, Java, C++, Node.js, and SQL** with hands-on experience in full-stack development, database management, and software deployment. Skilled in **Agile methodologies, version control, and automated testing** to ensure high quality software solutions. Familiar with secure software development practices and CI/CD implementation, ensuring high quality and secure software delivery. Currently looking for a role to apply my technical expertise in the real-world to build **efficient and user centric applications**.

## EDUCATION

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**BSc in Computer Science, 1st** | University of Roehampton | UK | 2021 - 2024

- Core Focus: Software Engineering, Data Science, Artificial Intelligence, Machine Learning, Software Development
- Membership: Member of code club and Cricket Club.

## WORK EXPERIENCE

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**Web Developer (Intern)** | Fly Affinity | May 2024 - July 2024 | London, UK

- Increased user engagement by 66.67% through the design and optimization of interactive website pages.
- Implemented a dynamic, interactive map feature, enhancing navigation and location functionality.
- Conducted regular website audits, reducing page load time by 30% through code optimization.
- Regularly updated the website with new features and improvements based on user feedback and web development trends.

**IT Associate** | Fly Affinity | October 2024 - February 2025 | London, UK

- Implemented data-driven solutions to improve operational efficiency and troubleshoot IT-related issues.
- Developed automation scripts in Python to optimize internal workflows, reducing manual tasks by 30%.
- Assisted in maintaining web interfaces for machine learning-based solutions.

## ACADEMIC PROJECT

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**DataPopulus: Country Data Visualization Website** | Software Engineering Project

- Designed and developed a full-stack website using Pug, Node.js, and MySQL to display country data like languages, cities, and GNP, with Docker for containerization.
- Implemented unit testing with Jest and CI/CD pipelines using CircleCI, ensuring high code quality and seamless deployment.
- Collaborated in a team of 5 using Agile methodology and GitHub for version control, delivering the project on time with efficient teamwork.

**Machine Learning based IDS** | Final Year Project

- Designed and trained a CNN model using CICIDS-2017 and KDD Cup99 datasets to detect intrusions.
- Achieved 92% accuracy in identifying threats, including DoS Hulk and DDoS attacks.
- Presented findings in a detailed report with performance metrics like F1 score and ROC curve.

## TECHNICAL SKILLS

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**Machine Learning Tools:** TensorFlow, Scikit-learn, Pandas, NumPy

**Data Visualization-** Tableau, Power BI, Matplotlib, Seaborn

**Programming Languages:** Python, SQL, R, Java, Node.js

**Integration and Unit Testing tools:** Jest, Circle CI, Nodemon

**OtherSkills:** Data Preprocessing, Model Deployment, Hyperparameter Tuning, SDLC, Agile Methodology