Hamza Gabajiwala

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SKILLS

Programming Languages	Python, C++, C#, Java, JavaScript, TypeScript
Databases	MySQL, SQLserver, PostgreSQL, PL/SQL, Firebase, MongoDB
Web/App Development	HTML, CSS, Bootstrap, RESTful, Flutter, React, Angular
Backend	Flask, Django, Selenium, Spring Boot, WebDriver, PHP
Containerisation	Docker, Kubernetes, Git, Postman, Jenkins
Agile Methodologies	SAFe, Scrum, Kanban, CI/CD, JIRA

EDUCATION

Trinity College Dublin   **September 2022 - August 2023**
- **Grade: 1:1** - M.Sc. in Computer Science (Specialising in Augmented and Virtual Reality)
- **Courses**: Computer Vision, Artificial Intelligence, Mathematics of Light and Sound, Real-Time Rendering/Animation, Research and Innovation, Machine Learning, and Augmented Reality.

NMIMS University   **June 2018 - April 2022**
- **GPA: 3.45/4** - B. Tech in Computer Engineering
- **Courses**: Project Management, Artificial Intelligence, Soft Computing, Advanced Image Processing, Data Structures, Big Data Analysis, and System Security.

EXPERIENCE

TIAA GBS - *Software Developer*   **June 2021 - June 2022**
- Successfully led an independent effort to migrate over 150 automation test cases from **Selenium** to **WebDriver** within an impressive 14-day timeframe.
- Demonstrated exceptional proficiency in leveraging **Jenkins** as a robust **CI/CD** platform by effectively automating test cases assigned on **JIRA**.
- Recognised with a "Pat on the Back" award for reducing downtime in data collection by 50%, using **RestAPI** for fetching data, and seamlessly integrating it into the automation test scripts.

NDT Solutions - *Web Developer*   **May 2020 - July 2020**
- Successfully translated UI/UX designs and user requirements into a responsive and user-friendly front-end code. Showcasing a keen eye for detail and an innate understanding of **UX** principles.
- Leveraged front-end technologies, including **HTML5**, **CSS3**, **JavaScript** and **Bootstrap**, to build an interactive website, elevating user engagement.
- Identified and resolved bugs and issues, ensuring a smooth and error-free user experience, and tested the website on updates across various browsers and devices.

PROJECTS

Mitigating Data Collection Challenges using cGANs - *Dissertation*
- Revolutionised Data Collection and Annotation using synthetic images, boosting Machine Learning models' performance on unseen data.
- Implemented state-of-the-art transfer learning models like **ResNet50** and **MobileNetV3** using **Keras** and **TensorFlow** to train the **Conditional GAN**.
- Discovered that cGANs learn and leverage underlying dataset patterns to generate novel information.

Holoway - *Virtual Meeting Room*
- Developed a Virtual Meeting Room following the **Test Driven Development** methodology. Prioritising test creation before code implementation to ensure exceptional software quality.
- Utilised **C#** within **Unity** to create the **Oculus Quest 2** headset application and a Desktop application to allow users to interact with each other and objects in the virtual meeting rooms.
- Adopted the **Extreme Programming** methodology, dividing the team into pairs for each sprint, emphasising pair programming. Facilitated seamless knowledge, elevating the overall code quality through real-time code reviews.

PUBLICATIONS

- Comparative Analysis between InceptionResnetV2 and InceptionV3 for Attention Based Image Captioning
- Comprehensive Review of Various Optimization Algorithms for Image Captioning