Sanjay Jacob

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Education

MEng Computer Vision & Artificial Intelligence (In progress)
University of Limerick, Limerick, Ireland — Sept 2025 – Present: Advanced programme covering computer vision, deep learning, reinforcement learning, and applied AI. Focus: image recognition, object detection, segmentation, and real-time AI deployment on edge/cloud systems.

MSc Artificial Intelligence (Merit 2:1)
University of Kent, Canterbury, UK (**September 2023 – September 2024**): Developed deep learning models using **PyTorch**, **TensorFlow**, and **Scikit-learn**. Gained experience in **NLP**, **computer vision**, and **data analytics**.

BSc Honors Computer Science with a Year in Industry (First Class Honors)
University of Kent, Canterbury, UK (**September 2019 – May 2023**): A Strong foundation in algorithms, data structures, and software engineering. Placement year at CaseWare UK.

Academic Projects Undertaken

- **Elder Monitoring System (In progress):** Real-time pose estimation for fall detection; automated caregiver alerts.
- **Language-Facilitated Robot Task Planning** (**MSc Final Project**) - Webots simulation with OpenAI-powered voice control + A* path planning. https://github.com/SSJJCC-oss/RobotWheelchair
- **Domestic Helper Website** (a group project) using JavaScript, HTML, CSS, and an open-source JavaScript environment such as Node.js and frameworks like Three.js- GitHub. https://github.com/Ryan-Ali-21/COMP6000-GroupProject
- **Maze Runner 3D Game:** Unity + C#, reinforcement learning agent. – GitHub. https://github.com/SSJJCC-oss/COMP6100
- **Snake AI:** Python + Pygame; ML agent plays Snake autonomously. – GitHub. https://github.com/SSJJCC-oss/COMP8260

Technical skills

Skills:
- **Programming:** Python, Java, C++, C#, JavaScript (HTML, CSS, Node.js, PHP basics)
- **Machine Learning / AI:** Deep Learning (CNNs, RNNs, Transformers), PyTorch, TensorFlow, Keras, Scikit-learn
- **Date Science:** Pandas, NumPy, Matplotlib, Seaborn
- **Computer Vision:** OpenCV, Webots (simulation), image classification & object detection
- **Cloud & Tools:** AWS (SageMaker basics), Google Cloud AI, Git/GitHub, Docker
- **Methodologies:** Agile, Scrum

Work experience/Activities.

CaseWare UK Ltd – JavaScript Developer (June 2021- May 2022): Built JavaScript modules for financial SaaS platform, deployed to production. Collaborated in Agile sprints; contributed to code reviews and debugging.

Distinctive Bars, Canterbury – Bar Supervisor (September 2023 – August 2025) - Managing a team of 15 members and delivering high- quality service and exceptional customer service.

Workshops / Activities Attended

- Graduate and Researcher College Global Skills Award (2023 – 2024) – Won the Bronze Award
- Sparta Global, Codemas Coding Workshop (Data Analysis) - Utilizing Python to create data visualizations.
- **EIRA i-Teams Kent (2021)** – Completed an 8-week consultancy project with TRN Ltd, presenting findings to industry sponsors under mentorship from Tudor Price, Deputy CEO of Kent Invicta Chamber of Commerce - https://www.kent.ac.uk/news/kentlife/28358/students-gain- extensive-business-knowledge-from-i-teams-challenge