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Data Engineer  
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Profile Summary

* Final-year **Data Engineering student** with strong skills in **programming and big data technologies**. Proficient in **Python, R, and SQL**, with hands-on experience in **data analysis, infrastructure engineering, and machine learning**. Well-versed in **object-oriented programming (OOP) and data structures & algorithms**.
* Skilled in **databases (MySQL and MongoDB), networking (Cisco), virtualization (NDG), and cloud computing (Azure)**, with a keen interest in **AI, emerging technologies, and scalable data solutions**. Passionate about **optimizing data workflows** and **leveraging automation** for efficient data processing.
* A **quick learner and problem solver**, eager to apply technical knowledge to **real-world projects**. Enthusiastic about working in **diverse, multicultural teams** to drive innovation in data engineering. A **proactive team player**, always ready to collaborate and contribute.
* Fluent in English and excel in multicultural, diverse work environments.

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| Education  **Technical and Further Education (TAFE)**  Bachelors of IT (Data Engineering)  Sydney, Australia, 2023-2025 **GPA: 3.25/4.00** | Technical skills  **Languages**: Python, Javascript, R.  **Networking**: Cisco.  **Databases**: **SQL:**  MySQL, **NoSQL:** MongoDB  **Cloud**: Microsoft Azure. |

Projects & Academic Experience

**Fake Currency Detection System –** Computer Vision & Machine Learning University Coursework | [Feb/2025]

* Developed an **AI-powered fake currency detection system** using **deep learning and computer vision**, integrating **TensorFlow, OpenCV, and Raspberry Pi** to classify real and counterfeit banknotes in real time.
* Built a **custom dataset** of real and fake currency images, applying **data augmentation** to improve model generalization. Designed and trained a **Convolutional Neural Network (CNN)** to extract security features like **holograms, watermarks, and microtext**, optimizing it with **TensorFlow Lite** for **fast inference on low-power hardware**.
* Implemented **automated image capture** using **Raspberry Pi Camera Module**, integrating a **real-time classification pipeline** with an intuitive user interface.

**Flight Management System –** Data Structure and Algorithms University Coursework | [Aug/2024]

* **Developed a fully functional Flight Management System** in Python, integrating object-oriented programming (OOP), data structures, and algorithms.
* Designed a **class-based architecture** to manage flights, passengers, and bookings, optimizing search and retrieval using a **Binary Tree**. Implemented **BubbleSort, MergeSort, and Binary Search** to enhance performance. Built a structured **user interface with menus** and integrated **file handling** for data storage. Added helper functions to improve efficiency, ensuring smooth execution and usability.
* **Successfully executed and tested** the project, demonstrating strong problem-solving, algorithmic thinking, and software development skills.

**Ai Powered Resume Screening Tool –** Natural Language Processing University Coursework | [Dec/2024]

* Built an **NLP-based resume screening tool** to automate candidate shortlisting.
* Preprocessed text using **tokenization, stopword removal, lemmatization, and word embeddings** (TF-IDF, Word2Vec).
* Trained models **(Logistic Regression, Random Forest, BERT)** to rank resumes based on job descriptions. Achieved **high accuracy** in matching candidates while optimizing **precision, recall, and F1-score.**
* Deployed the model on a local machine for **cost-effective, on-premises processing,** ensuring data privacy. Documented challenges, improvements, and future recommendations in a detailed report.