Shivan Ramharry

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Summary

Computer Science graduate from the University of York with a strong foundation in software engineering, data structures, systems development and data science. Proficient in Python, Java, and SQL, with hands-on experience in architecting and deploying data-driven applications. Seeking to apply robust analytical and technical skills to an entry-level software development, data science or computer science role.

Education

University of York | York, North Yorkshire
BEng (Hons) Computer Science | Graduated July 2025
- **Final Classification:** Second Class Honours: Division One (2:1)
- **Key Modules:**
    - Human-Computer Interaction 1: Introduction to User Centred Design
    - Engineering 1: Software & Systems Engineering
    - Intelligent Systems: Probabilistic & Deep Learning
    - Software 2: Object-Oriented Data Structures & Algorithms
    - Engineering 2: Automated Software Engineering
    - DATA: Introduction to Data Science

Technical Skills

- **Languages:** Python, Java, SQL
- **Developer Tools & Methodologies:** Git, APIs, Agile Methodologies
- **Data & Databases:** SQL, Pandas, NumPy, Scikit-learn, Matplotlib, Data Cleaning, Data Visualisation
- **Specialisms:** Machine Learning, Deep Learning (TensorFlow/PyTorch), NLP (ROBERTa), Computer Vision (CNNs)

Professional Experience

Freelance Developer | Supertrack | Ballito, South Africa *(Nov 2021 - Aug 2024, Seasonal)*

- **Data-Driven Application Development:** Architected and deployed a custom Java and SQL application to digitise and centralise sales and order tracking.
- **Improved Data Integrity:** The system eliminated manual entry errors and improved data

accuracy for reporting, providing a reliable source of truth for business analysis.
- **User Interface Enhancement:** Refined the application's UI to increase system adoption among staff, ensuring high-quality and consistent data capture.

Technical Projects

Bank Customer Data Analysis | [[GitHub Link](#)]

- Conducted data analysis using Python and Jupyter Notebook to identify key drivers of customer churn and inform risk assessment strategies.
- Performed data cleaning, normalisation, and exploratory data analysis (EDA) on a raw banking dataset to prepare it for modelling.
- Developed and evaluated predictive models with Scikit-learn, providing actionable insights.

Advanced NLP Model for News Analysis (Dissertation) | [[GitHub Link](#)]

- Developed an advanced deep learning model using ROBERTa to simultaneously detect conflicting perspectives and analyse emotional sentiment in news articles.
- Applied complex Natural Language Processing (NLP) and multitask learning techniques.

Image Classification with Deep CNN | [[GitHub Link](#)]

- Designed, trained, and fine-tuned a deep Convolutional Neural Network (CNN) to classify images from the Flowers-102 dataset with high accuracy.
- Implemented data augmentation techniques to improve model generalisation and prevent overfitting.

Extracurricular Activities

Marketing Officer | University of York Vietnamese Society | York, UK *(Nov 2024 - Present)*

- Managed strategic collaborations and led website development, enhancing the society's brand and member engagement.