

# 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.

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## 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 & Marks:**
    - Human-Computer Interaction 1: Introduction to User Centred Design (74)
    - Engineering 1: Software & Systems Engineering (73)
    - Intelligent Systems: Probabilistic & Deep Learning (72)
    - Software 2: Object-Oriented Data Structures & Algorithms (71)
    - Engineering 2: Automated Software Engineering (68)
    - DATA: Introduction to Data Science (66)
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## 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)
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## 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.
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## 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.
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## 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.