

# Tom Lam

Computer Science Student | Machine Learning Enthusiast

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## SUMMARY

Results-oriented and detail-driven Computer Science Student with a solid background in Python programming and a passion for machine learning. Experienced in data structure and algorithm implementations with a proven track record of strong academic performance. Skilled in ... Seeking opportunities to ...

## PROJECTS

- LeNet-5 from Scratch** | *Python, Numpy, Scipy, Pillow, ML, Linear Algebra* | 🌐 Jul - Aug 2024
- Created a model to classify the 5 types of rice from the Rice Image Dataset at Kaggle
- Rice Image Classification** | *Python, PyTorch, Matplotlib, ML, Scikit-learn, Seaborn* | 🌐 Jul 2024
- Created a model to classify the 5 types of rice from the Rice Image Dataset at Kaggle
  - Constructed a 4-layer CNN classifier with normalize and pooling approaches
  - Visualized the model accuracy and results with graphs and confusion-matrices
  - Achieved an accuracy and average F1-score of over 99%
- Fuzzy Trie** | *Python, OOP, Dynamic Programming, Data Structures, Unit Tests* | 🌐 Jun 2024
- Constructed a prefix-tree data structure with approximate string matching function
  - Re-implemented the fuzzy search algorithm modified from Shang and Merrettal's paper ([1988](#))
  - Developed following OOP principles and PIP8 Python style guide
  - Utilized the Python unittest library to create test cases for the tries

## EDUCATION

- University of Bristol** Bristol, UK  
*B.Sc. Computer Science* Sep 2024 - Present
- University of Warwick** 🎓 Coventry, UK  
*International Foundation Programme in Computer Science* Sep 2023 - Jun 2024
- Grade: Distinction (92%)

## SKILLS

- Programming languages:** Python
- Web Frameworks:** Django
- Data Analysis Tools:** Matplotlib, Numpy, Pandas, PyTorch, Scikit-learn
- Languages:** English, Cantonese, Mandarin

## COURSES & CERTIFICATIONS

- IBM AI Engineering (online course)** 🌟  
*Issued Jul 2024 by Coursera — Authorized by IBM*

## TEST SCORES

- IELTS Academic — 8.0 (C1)** Dec 2023
- Reading: 9, Listening: 9, Writing: 7, Speaking: 6.5