LEE ZHENG YAO DANIEL

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EDUCATION

National University of Singapore Aug 2020 – May 2024
Bachelor of Science (Hons): Data Science and Analytics, and Computer Science

- University Town College Programme, Residential College 4
- **Notable Courses:** Machine Learning, Natural Language Processing, Software Engineering in Java, Algorithms, Data Visualization and Analytics, Parallel Computing, Systems Thinking and Dynamics

SKILLS

Languages: Python, Java, R, C
Technologies: PowerBI, PowerQuery, PyTorch, ScikitLearn, SQL, Bash, Git, Docker, Vensim

EXPERIENCE

EastSpring Investments
Singapore, SG

Software Engineering Intern – Information Technology May 2022 – Aug 2022

- Automated a project management platform, leveraging on Microsoft Project Online and Cloud Tools
- Designed and curated an interactive real time dashboard of project statuses for management
  - Implemented using PowerBI linked to online data cloud

National University of Singapore
Singapore, SG

Teaching Assistant – CS1010S Programming Methodology Aug 2021 – Aug 2022

- Taught tutorials and graded assignments on programming methodology with Python as a medium
- Tutoring efforts resulted in an overall student average score of 77.9%, placing 5th amongst 60 tutors
  - Achieved average teaching feedback score of 4.9/5.0, above department average of 4.4

PROJECTS

Natural Language Processing
Mar 2023

- Created sentiment classifiers using various machine learning models, such as DANs in Python
- Developed POS taggers using a Hidden Markov Model structure and the Viterbi Algorithm

Software Engineering: InternConnect
Nov 2022

- Developed a java based desktop application for managing internship applicants, optimized for CLI use

LTA: Traffic Condition Dashboard
Oct 2022

- Worked in backend of a full stack development team to create a traffic condition dashboard
- Designed backend microservices architecture using Docker and RabbitMQ
- Built backend machine learning models to detect traffic conditions from traffic cameras using Python
  - Leveraged YOLO computer vision models to count vehicle orientation and detect traffic congestion

Machine Learning: Fall Detection
Apr 2022

- Implemented fall detection software using an Optical flow Convolution Neural Network in Python

Data Science Competition: Computer Vision

Apr 2021

• Utilized computer vision to identify condition and number of computer chips in manufacturing using Python's OpenCV library

CO-CURRICULAR ACTIVITIES AND INTERESTS

Leadership Positions

Project Director	RC4 Freshmen Orientation Camp
Captain	TeamNUS Fencing
Captain	RC4cue, Cue-sports
Member	College Committee, Clubs and Societies
Member	RC4 Open Day Publicity Committee
Member	Inter-College Games Organizing Committee
Member	House Committee, Events

Additional Information

Languages: English, Mandarin and Elementary Japanese
Interests: Badminton, Fencing, Artificial Intelligence