**Tianming Gu**

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**EDUCATION**

**University of Leeds** Sep 2021 - Aug 2022

*Master of Science in Computer Science (Data Analysis)*

**University of Hertfordshire** Sep 2020 - June 2021

*Bachelor of Science in Computer Technology and Network*

**Changzhou Institute of Technology** Sep 2017 - June 2020

*Bachelor of Applied Science in Software Engineering*

**HIGHLIGHTS OF QUALIFICATIONS**

Programming languages: Java, Python, C#, JavaScript, SQL, ASP.NET, XML, PHP

Technologies/Developer tools: Apache HTTP Server, MySQL, Tomcat, Linux, Ubuntu, Matlab, Bash, Azure

**PROFESSIONAL EXPERIENCE Jiangyin Science and Technology Innovation Service Center** Jan 2020 – Mar 2020

*Software Engineer Intern*

* Designed the “One-Stop Service Platform for High-End Talents In Jiangyin” in a team to simplify the workflow by integrating unit resources, building a request acceptance system and unifying the handling process, improving workflow efficiency by 16%.
* Developed **MySQL** database schemas and key functions such as business alerts and business acceptance in **Java**.
* Supported the use of the platform by offering technical support, tracking issues or user needs, and developing solutions, achieving over 95% customer satisfaction rate.

**Jiangyin Tuoyuan Information Technology Co.**  Apr 2020 – July 2020

*Software Engineer Intern*

* Design The "Tuoyuan Enterprise Resource Cloud Management System" in a team to develop plans for manufacturing companies, server-side services via **RESTFUL** lightweight protocol, meet needs of 20,000 simultaneous online users.
* Develop **MsSql** database schemas and key functions such as data printing, fast entry, excel/xml file import in **Java.**
* Support functional module by providing technical support, product meets personalisation needs of 97.6% companies.

**Shanghai Yusinic Technology Co.** July 2021 – Sep 2021

*Software Engineer Intern*

* Responsible for the image algorithm part of the fully automated high-throughput fluorescence cell analyser( **QiCyto）**, analyzing tens of thousands of biomedical images through ResNet in **Python**, with an accuracy rate of 96% for the identification of cellular microorganisms
* Responsible for developing the key functions of the product in **Java**: starting the machine detection process; editing the sample information; viewing the cell fluorescence intensity map.
* The software design of the product meets compliance requirements, and the standardised testing process ensures objective and controlled results, greatly enhancing the repeatability and reliability of test results.

**PROJECT EXPERIENCE**

**Image Caption Generation System** Jan 2022 - May 2022

* Processed 25K+ images through an Encoder model to extract features, cleaned and processed the captions to build a caption dataset for training and validation.
* Trained a **Decoder** machine learning model in **Python** using image features and training captions data.
* Evaluated the model by calculating the **BLEU** (BiLingual Evaluation Understudy) score on the predictions, and achieved a score of 0.82.

**Projections of Cancer Mortality by Country in the United States** Oct 2021 - Dec 2021

* Collected 1 million of training data and target cancer mortality rates in the US. Conducted data analysis by plotting histograms of all features using **pandas** and **pyplot** in **Python** to visualize the distribution and identify outliers.
* Created a machine learning pipeline using **scikit-learn** to pre-process the training data.
* Implemented linear regression models (Ordinary Least Squares, Lasso and Ridge) and random forest regression model to compare the performances.