

Zikun Zhao

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EDUCATIONAL BACKGROUND

University College London, London
MSc Information Security

United Kingdom
09.2024-09.2025

- Courses:** Computer Security I&II, Introduction to Cryptography, Research in Information Security, People and Security, Cryptocurrencies, Information Security Management, Privacy Enhancing Technologies

Cardiff University, Cardiff
BSc Computer Science

United Kingdom
09.2021-06.2024

- Degree Class:** 2:1 Degree (68%)
- Courses:** Web Applications, Problem Solving with Python, Architecture and Operating Systems, Human Computer Interaction, Database Systems, Communication Networks, Object Orientation, Algorithms and Data Structures, etc.

SKILLS & SELF-EVALUATION

- Languages:** Mandarin (Native), English (Fluent)
- Software & Computer Languages:** Proficient in Python, Java, C++, HTML, CSS, JavaScript, Vue Framework, etc.
- Self-evaluation:** Target-oriented with passion and willpower, rational and logical with intellectual curiosity.

INTERNSHIP EXPERIENCE

Xiong An Xiong Chuang Digital Technology Co., Ltd
Project Development Intern

Hebei, China
07.2023-09.2023

- Participated in City Lifeline and Xiong Jian Fa Investment Projects, focused on DIV+CSS page layout and refactoring, and took part in web development process, cutscene and HTML page code optimization
- Be familiar with HTML, CSS, JavaScript, Vue framework, utilized webpack to build vue-cli scaffolding to develop single page projects and packed those projects
- Employed HTML5, combined with CSS3 transitions/animations and JS, and connected to postgresSQL database to complete the project, developed the system login interface, as well as the home page, features included Thumbs gallery, layered widget development
- Be responsible for existing system operation and maintenance, including software deployment and migration, and participating in the positioning of system data anomalies and error identification, as well as the system of new features iterative research and development
- Took part in the implementation of technical projects and continuous optimization of related product performance, as well as completed other tasks assigned by the project manager

ACADEMIC RESEARCH EXPERIENCES

An Analysis on the Specific Data of the QS World Top 200 Universities
Project Holder

United Kingdom
07.2023-09.2023

- Utilized pandas, Numpy and Matplotlib, jupyter notebook, etc. to analyze, compare and visualize the results as needs
- Extracted data from the top 200 UK universities in the QS World University Rankings, constructed and displayed a tabular data structure (i.e. DataFrame), and constructed horizontal bar charts to differentiate between universities ranked in the top 50 worldwide and those ranked between 51 and 200
- Excluded countries with fewer than three of the top 200 universities, the mean value of academic reputation was calculated and ranked in descending order for each of the other countries, with error bars added to the bars to show their 95% confidence intervals, applied a t-test to test for significance for neighboring countries, and labeled it
- Used an OLS linear regression model to estimate the unknown data, and assessed the performance using the Mean Square Error (MSE)

Grayscale Image Quality Assessment
Project Holder

United Kingdom
10.2022-11.2022

- Implemented the Local Binary Pattern (LBP) algorithm and constructed an automatic Image Quality Assessor (IQA) based on the LBP histogram
- Developed the IQA algorithm, performed a correlation analysis to evaluate the algorithm's ability to predict the real image quality, i.e., the Pearson linear correlation coefficient between the algorithm-generated image quality and the real overall image quality
- Developed an alternative IQA to drop all images contained in the data file into the assessor, performed simple image statistics by average pixel intensity and medium pixel intensity, and predicted overall image quality based on the equation; Quantified the algorithmically generated image quality and the true overall image quality by the linear correlation between the two

OTHER PRACTICAL PROJECTS

- Hospital Patient Monitoring System Design & Construction:** Utilized Arduino IDE, C++ and hardware equipment to design a simple version of the hospital patient monitoring system; Employed IoT components and leveraged their capabilities to create a modern efficient patient monitoring system; Enabled nurses and doctors to ensure the safety and comfort of patients from remote locations, allowed nurses to care for multiple patients at once

- **Unlocking the Future Fit Skills in Generation Z:** Conducted demand analysis, created and completed MIFuture skills training APP with Android Studio, designed its interface and interaction flow, and carried out functional, performance, and security test for the APP to ensure its quality
- **Web Application & Creation:** Constructed an online shopping website using Dreamweaver, Webstorm, etc.; Designed, built and tested front-end web pages and back-end applications based on specifications; Understood the main standards, techniques, tools and other aspects that were relevant for modern web development