

Che Wang

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EDUCATION

University College London Computational archaeology Master Core Related Coursework: Archaeological Data Science, Spatial Statistics, Network Analysis and Human History	Sep 2021 - Jan 2023
Pennsylvania State University Information science and technology Bachelor Core Related Coursework: Statistics for Security; Network Security; Object-Oriented Application Development Honors and Awards: 2017-2018 Dean's List for three consecutive terms	Sep 2017 - Jun 2021

PROJECT EXPERIENCE

LLM-based Text-to-SQL System Adaptation (CHESS) - Adapted and extended the CHESS text-to-SQL framework to support alternative LLM backends, including DeepSeek, to improve accessibility under regional deployment constraints, using AI-assisted coding workflows for rapid prototyping, code exploration, and debugging. - Used LLM tools to navigate and modify an unfamiliar research codebase, implementing changes across retrieval, schema selection, candidate generation, and testing components. - Evaluated system performance on the BIRD benchmark and analysed the impact of different LLM configurations.	Jun 2026 - Present
AI Reliability and Mitigation Project - Studied high-confidence hallucinations in large language models and analyzed uncertainty patterns in large-scale evaluation data. - Built experimental pipelines to estimate model certainty and identify systematic failure behavior under prompt variation. - Designed and evaluated a self-consistency voting framework to mitigate unstable predictions using statistical analysis.	Mar 2025 - Jun 2026
Roman Coins and Data Science - Developed a Python program to efficiently scrape information on Roman coins from a dedicated website, enabling the collection of extensive historical data. - Utilized SQLite for data storage and management, ensuring that the scraped information was well-organized and easily accessible for further analysis. - Analyzed the scraped data to identify patterns and insights regarding Roman coin distributions and characteristics, contributing significantly to a deeper understanding of historical numismatics.	Dec 2021 - Dec 2022

PROFESSIONAL EXPERIENCE

NSFOCUS Technologies Group Co Ltd Security engineer	May 2023 - Sep 2023 Beijing, China
- Investigated potential web application data exposure during a comprehensive penetration test of the Beijing Gas website; collected technical evidence, documented findings, and proposed long-term mitigation strategies that enhanced overall security posture. - Coordinated with university IT stakeholders while overseeing a network security project at Beijing Union University, performing asset scanning and vulnerability assessments that reduced risks and improved data protection controls. - Led a blue team in the China National Cybersecurity Defense Competition, conducting real-time monitoring of network traffic to promptly identify and mitigate threats, significantly improving the team's defensive capabilities. - Prepared detailed security assessment reports and post-incident documentation to support awareness, training, and continuous improvement initiatives.	
DAS-Security Security Engineer	Jun 2020 - Sep 2020
- Designed and administered questionnaires to collect key information, applied data anonymization techniques to remove personal identifiers, and successfully classified data to enhance project data management efficiency while ensuring participant privacy. - Utilized Excel and R programming for statistical analysis, ensuring accurate and in-depth data interpretation to strengthen decision support. - Collaborated with colleagues to author a report on cybersecurity talent development, significantly enhancing the quality and practicality of the report through teamwork.	

TRAINING AND CERTIFICATE

Security and Resilience Certificate Imperial College London Core studies: Network Security, Security in Context, Cyber-Physics System Security	Oct 2023 - Jan 2025 London
National Security Agency Pennsylvania State University	Jan 2021 - Aug 2021 USA

SKILLS, CERTIFICATIONS & OTHERS

- Skills:** Python, QGIS, SQL, Javascript, Linux, R studio, Burpsuite
- Languages:** English (Fluent), Mandarin (Native)