QIYANG SUN

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EDUCATION

University of Southampton   Year 1 avg. 82.3%

BSc Computer Science   2022 – 2025

Programming (Java, C, Haskell), Computer Systems, Foundations of Computer Science, Algorithms, Data Management, Software Modelling & Design, Intelligent Systems, Theory of Computing, Interaction Design, Distributed Systems & Networks, Programming Language Concepts, Principles of Cyber Security

AWARDS

Awards for programming and algorithms competitions include **third prize** in National Olympiad in Informatics (NOI) held by China Computer Federation in the province in Dec 2018; and **third prize** for Certified Software Professional (CSP) held by China Computer Federation in Nov 2019 and Nov 2020.

EXPERIENCE

Cybersecurity Engineer   Jan 2022 – present

Organised by Cybersecurity and Education Management Informatisation Engineering Research Centre, and Information Construction and Management Centre of Inner Mongolia University of Technology, China

Part-time internship, this work aims to verify a list of potential cybersecurity vulnerabilities for universities and colleges in Inner Mongolia. Verified more than 2700 vulnerabilities in total, including severe vulnerabilities which might cause database exposure.

Student Leader of Campus Radio and Television Station   Sep 2019 – Jun 2021

Elected by Campus Radio and Television Station of Dalian No.23 High School

Directed most of the events. Proficiently shot and edited photos and videos. Wrote programs to narrate school announcements and improve radio workstation login security. The videos were played on the campus advertisement screen and forwarded by the school's official account; the software and documentation are used until now.

SKILLS

Java & Software	Have mastered object-oriented programming knowledge and skills. The programming coursework for semester one, which implements an orchestra – inputs musicians and scores and plays MIDI music, was marked 98%; the progamming coursework for semester two, which makes a tetris-like multiplayer video game called TetrECS, was marked 100%. Can use formal methods e.g., Event-B to model, refine and verify software.
C/C++	Can code in C and C++. Attended NOI in C and CSP in C++.
UNIX & Cybersecurity	Advanced skills in Linux shell. Can build a web server with nginx. Can use basic tools to verify vulnerabilities. A membership of OWASP China. Attended OWASP China Security Technology Salon in July 2021.

OTHER

International student studying in the UK. Speak Chinese (native), and English (CEFR Level C1).

REFERENCES

Dr Shoaib Jameel

Lecturer, Electronics & Computer Science

University of Southampton

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