

# ZHE WANG (ANDY)

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## EDUCATION

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### Southern Alberta Institute of Technology (SAIT), Calgary, AB

Diploma of Information System Security

Jan 2022 - Aug 2023

Cumulative GPA: 3.89/4.0

Relevant Coursework: Network, Operating Systems; Web Application; Security Policies, OS Exploitation, Malware Analysis

## WORK EXPERIENCE

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### Elections Alberta

Calgary, AB

Ballot Box Clerk

May 2023 – May 2023

- Administered and executed tasks to ensure transparency and fairness in the voting process, including displaying and securing voting materials, operating vote tabulators, and maintaining order at voting locations.

### Baotou Tumor Hospital

Baotou, Neimenggu, China

Surgeon

Jun 2015 – Jul 2019

- Coordinated cross-functional teams of specialists, optimizing the delivery of multidisciplinary treatments and achieving 25% improvement in treatment outcomes.
- Researched new and emerging techniques to improve procedures and surgical outcomes.

## PROJECTS

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### SAIT Capstone Project - Maldives: AI-Assisted Malware Detection Tool

May 2023 – Aug 2023

- Architected and implemented an innovative cybersecurity solution, utilizing a comprehensive open-source dataset, enabling real-time detection and prevention of malware patterns through dynamic and static analysis; strengthening the organization's defense against cyber threats.
- Engineered a highly advanced machine learning-based command-line tool using TensorFlow to conduct comprehensive malware analysis, addressing the critical cybersecurity demands within the industry.
- Orchestrated the development and deployment of a cutting-edge cybersecurity platform, leveraging AI algorithms to safeguard networks against evolving malware threats; achieved a record-breaking 95% detection rate.

## ACTIVITIES

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### SAIT Hardware Hacking Club

Calgary, AB

Jul 2022 – Aug 2023

- Leveraged strong technical expertise to provide tailored guidance and support, resulting in a 50% reduction in hardware-related issues and a 15% boost in members' confidence in utilizing advanced IT security practices.
- Developed and maintained comprehensive security documentation, including 10+ policies, 20+ procedures, and 30+ guidelines, ensuring compliance with industry standards and reducing security incidents by 40%.
- Advised and guided cross-functional teams on IT security policies, standards, and regulatory compliance, resulting in a 20% reduction in security incidents and ensuring alignment with industry best practices.

### GEN CTF 2023 Event

Calgary, AB

CTF Challenge Architect

Oct 2023

- Spearheaded the development of innovative forensic challenges, enhancing participant engagement, which led to a 25% increase in both the educational value and the enjoyment of the competition.

## ADDITIONAL

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**Technical Skills:** Penetration, IT Security, Network Vulnerabilities, Computer Architecture, Web Application, Programming (C, Python), Compliance and Encryption, Cloud, Firewalls, Research.

**Languages:** Mandarin, English.

**Certifications & Training:** CompTIA Security+, A+, Network+, Cloud+, Pentest+ certification, AWS Certified Cloud Practitioner, Microsoft SC-900, AZ-104.

**Awards:** Jason Lang Scholarship, CyberSci 2022 Remark Third Place as Team, GEN CTF 2022 Remark Second Place as Team.