

Joel Chan

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Education

Iowa State University

B. S. Cyber Security Engineering

GPA: 3.7

August 2024 - May 2027

Experience

John Deere

April 2025 - Present

Part Time Student - Vulnerability Management

- Developed an automated process to resolve and close over 800 vulnerabilities that were incorrectly stuck in an 'open' state in ServiceNow, significantly improving ticket accuracy.
- Engineered an automation script to correctly match over 2,000 unassociated Qualys findings with their corresponding device records in the ServiceNow CMDB.
- Added Nutanix VMs and Infra to scanning inventory automation, increasing Nutanix scan coverage from 76% to 90%
- Migrated EC2 termination AWS automation from Lambda to ECS with Terraform, eliminating runtime-limit and improving reliability.
- Analyzed and manually assigned vulnerabilities identified by the Qualys platform, processing exceptions not handled by automated assignment rules.
- Collaborated with a variety of IT teams to monitor the remediation lifecycle and ensure timely patching of identified vulnerabilities.

Krispy Kreme

Food Service Worker

Clive, Iowa

September 2021 - August 2022

Projects

Cyber Defense Competitions

April 2022 - Present

- Collaborated with team members to develop and execute strategies, leveraging individual strengths to achieve our competition goals.
- Implemented client and network firewalls to monitor and control our network.
- Detected and removed backdoors and insecure service configuration set by the competition organizers.
- Configured Group Policy to implement the principle of least privilege on our network.
- Implemented Wazuh SIEM to help monitor our network for intrusions during the competition attack phase.
- Created detailed documentation about computer/network configurations, usage and intrusions.

Certifications

TestOut Certifications

TestOut PC Pro, Security Pro, Network Pro, Routing and Switching Pro, Ethical Hacker Pro, Server Pro: Core

Skills

Security Tools: Qualys, Firewalls

Platforms & OS: Windows Security, Linux Security, Active Directory, AWS, Terraform

IT/Ops & Automation: ServiceNow, Group Policy, Automation (Scripting)

Hardware: PC Building & Troubleshooting

Awards & activities

- 1st Place - ISU2 2026
- 2nd Place - ICDC 2026
- Hacking and Cybersecurity Club - Regular attendee, Iowa State University.