

## **Ethan Roepke**

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## **Education**

### **Iowa State University – Ames, IA**

Bachelor of Science in Cyber Security Engineering, Expected May 2026

- *Quest & Expedition Award Scholarship Recipient*

## **Technical Projects**

### **Cybersecurity Steganography Lab (Virtual Machine Deployment)**

- Built a virtual machine using Ubuntu Linux to perform steganography analysis and detection.
- Embedded covert messages within image and audio files using tools such as OpenStego, StegDetect, and StegHide.
- Conducted testing in both Windows and Linux environments, highlighting adaptability and platform versatility.
- Developed the project into an interactive challenge platform for users, proving initiative and problem-solving.

### **Work Management Mobile Application**

- Designed and implemented a full-stack employee management app using Android Studio (frontend) and Spring Boot (backend).
- Created features for real-time communication, scheduling, time tracking, and project updates to support workplace collaboration.
- Ensured functionality through API testing with Postman and built server-based database connectivity, reflecting precision and continuous learning.

### **Real-Time Face Detection and Recognition**

- Developed a facial recognition system using Python and OpenCV with real-time webcam input and audio-based alerts.
- Integrated foundational database logic for web deployment, emphasizing forward-thinking design and technical curiosity.

## TryHackMe Cybersecurity Labs

- Completed a broad range of cybersecurity challenges covering cryptography, web vulnerabilities, network protocols, and ethical hacking.
  - Applied critical thinking and time management to solve problems under realistic, simulated conditions.
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## WORK EXPERIENCE

### Iowa State University College of Veterinary Medicine – Ames, IA

#### IT Support

*May 2025 – Present*

- Provided in-person and remote technical support for hardware, software, and AV issues across the veterinary college.
- Administered **Active Directory** and **Group Policies**, ensuring secure access controls and efficient user management.
- Supported **ASW (Account Services on the Web)** for account creation, password resets, and role-based access management.
- Collaborated with IT staff on software rollouts and security audits, enhancing system efficiency and security.
- Collaborated with IT staff on **network infrastructure troubleshooting, security audits, and software rollouts**, enhancing overall system efficiency and cybersecurity posture.
- Managed help desk tickets to ensure timely resolution.

### Panera Bread – Omaha, NE / Ames, IA

#### Team Member → Baker → Team Lead

*July 2020 – April 2025*

- Progressively promoted into leadership roles through consistent performance, initiative, and team support.
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## TECHNICAL SKILLS

Linux | Windows | OpenStego | StegDetect | Autopsy | EnCase | Java | Python | HTML | CSS | C | Wireshark | Metasploit | Networking | Spring Boot | Android Studio | Postman.

