

# Carson Irving

carsonirving4@proton.me | (641) 820-1447 | Ames, IA | [Portfolio](#)

---

## WORK EXPERIENCE

### Weiler Products

May 2023 – Present

*Cybersecurity Intern*

Knoxville, IA

Weiler Products is a prominent manufacturer of road paving equipment, specializing in innovative solutions for the international construction industry.

- Designed and Developed Internal Software and Automation
  - **Stack:** .NET Framework; Microsoft SQL Server; WPF; Microsoft Power Apps; CRM REST API;
  - Laser and Plasma Data Manipulation and Automation
  - Application To Update Part Information
  - Engineering Change Order Dashboard With Automated Approval Notifications
- Monitored Network, Created Phishing Simulation Campaigns, and Ensured Data Confidentiality
  - Nmap; KnowBe4; Microsoft Sysinternals (Access Enum)
- Microsoft SQL Server Management
  - Security Groups
  - Database and Table Management
- Solidworks Automation
  - Created a Solidworks Macro To Update Tens Of Thousands of Parts With New Information
- IT/Helpdesk
  - Computer Hardware Repair, Assembly, and Disassembly
  - Created a Modified Company Standard Windows 11 Image

## EDUCATION

### Iowa State University

Graduating May 2026

*B.S in Cybersecurity Engineering*

Ames, IA

- Senior Design - Self Maintaining Fishtank With Accompanying Web Application and AI Integration
  - Developed .NET Core Rest API with SQLite Database Integration (EF Core)
  - XUnit For Unit Testing With In Memory Mock DB
  - Designed and Implemented JWT-Based Authentication and Authorization
  - Configured Nginx Web Server To Host React Web Application and API Documentation
  - Obtained and Configured TLS/SSL Certificate Using Let's Encrypt
  - Maintain and Configure Oracle Virtual Machine (Oracle Linux)
  - Write C++ To Program Arduino to Integrate With Sensors and Communicate With API
- CPRE 381 - Developed 32 Bit Processor in VHDL that Supported the MIPS Assembly Instruction Set
  - Single Cycle, Multi Cycle, and Pipelined Iterations
- COMS 309 - Java/Springboot Backend For Android Mobile Application
  - Best Programmer Award
- Dean's List Spring 2024 & Fall 2025

## SKILLS & INTERESTS

- **Technologies:** C# (.NET Core, .NET Framework, XUnit, EF Core); SQL; Java (Springboot)
- **Skills:** Network Security Auditing; Linux Proficiency; Git Proficiency; Efficient Problem Solving
- **Interests:** Console Hacking; College Football; Computer Hardware; Tracking Emerging Cybersecurity Threats;