

# Cole Mullenbach

Software Engineer & Automation Engineer

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- Lincoln Park, MI
  - Relocating to Iowa
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## PROFESSIONAL SUMMARY

Software Engineer specializing in automation solutions and data processing with a passion for building customized software that people actually love to use. Experienced in bridging the gap between technical complexity and user experience, with expertise in Python, MATLAB, SQL, and Linux server administration. Known for knowing when to ship fast and iterate vs. when to get it perfect.

## EDUCATION

### Iowa State University

*Graduated*

Bachelor's Degree in Software Engineering

## PROFESSIONAL EXPERIENCE

### Excel Engineering — Software Engineer

January 2024 – January 2025

- Develop tools for CAN bus analysis and automation pipelines
- Create customized solutions for diesel emissions testing
- Bridge technical complexity with user-friendly interfaces
- Collaborate with cross-functional teams to deliver reliable systems

### Army National Guard — Infantry Mortar Squad Leader

2018 – 2024

- Led a team of 4 in field operations and precision deployment
- Developed leadership skills in high-pressure environments
- Managed mission-critical operations with attention to detail
- Demonstrated clear communication and team dynamics expertise

## TECHNICAL SKILLS

### Programming Languages

Python, SQL, MATLAB, Java, Bash, HTML5/CSS3/JavaScript

### Web Development

Responsive Design, GitHub Pages, CI/CD, SSL/TLS, REST APIs

### Mobile & Frameworks

Android development, Spring Boot, Database Design

### Specializations

Diesel emissions testing, automation pipelines, homelab management

### Systems & Infrastructure

Linux server administration, Proxmox, TrueNAS, Docker, OPNsense

### Automation & Data

n8n automation, PostgreSQL, CAN-BUS analysis, Data Analysis

### 3D Design & Printing

Fusion 360, Cura, Orca Slicer, CAD Design, 3D Printing