Joseph Metzen

Senior Computer Engineer

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Experience

EnCompass, Cedar Rapids, IA

Systems Engineering Intern   June 2024 – August 2025

- Design, implement, and maintain computer networks and systems.
- Perform system hardening to ensure security and compliance standards are met.
- Implement and manage virtualization technologies for efficient resource utilization.
- Configure and maintain deployment services for system imaging and deployment.
- Work with cloud platforms for system deployment and management.

Other Career Experiences:

- Casey's, Fareway, Pioneer

Projects

Android Application Development (2025)

- Completed an Android app using Java, Spring Boot, SQL, and Hibernate ORM for both mobile and server-side development.
- Created and tested user data management features (add, post, update, delete) with POSTMAN to ensure everything works correctly.
- Set up Spring Boot APIs to connect the Android front-end with the back-end, making the app run smoothly for users.
- Followed Agile practices with regular team check-ins and used Git for tracking code changes, helping the team meet all deadlines.

Autonomous Vehicle Project (2024)

- Built a self-driving robot that could find its way to targets using sensor data.
- Wrote C code to set up and control the hardware (DC motors, servos, IR and ping sensors).
- Set up the GUI that showed sensor readings in real-time.

Education

Iowa State University, Ames, IA   August 2023 – December 2025
- Bachelor of Science in Computer Engineering
- Cumulative GPA of 3.5

Kirkwood Community College, Cedar Rapids, IA   August 2021 – May 2023
- Dean's List
- Cumulative GPA of 3.3

Tech Skills: C/C++, Java, SQL, Git, Linux, VHDL, Verilog