

Olivia Freund

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EDUCATION

Boston University Metropolitan College, Boston, MA (Fall 2025 – Fall 2027)

Master of Science: Software Development

University of Northern Iowa, Cedar Falls, IA (Fall 2021 - Spring 2025)

Bachelor of Arts: Economics/Business Analytics

Minor: Computer Science

- Division 1 Track & Field Team, University of Northern Iowa (2021 – 2024)

SOFTWARE & ENGINEERING PROJECTS

- Portfolio Website: <https://livfreund.netlify.app/>
 - o Designed and deployed a responsive personal portfolio using HTML, CSS, and JavaScript. Implemented light/dark mode toggle and dynamic icon behavior.
 - Printhead Classification Software
 - o Developed Python-based diagnostic tools for 3D printhead efficiency analysis. Built a UI with Tkinter and integrated image processing via Pillow and NumPy to automate hardware assessment.
 - Service Selection Website
 - o Created an interactive service selection platform using HTML, CSS, and Javascript. Engineered dynamic subtotal calculations and responsive UI for seamless user experience.
 - **Publicly available projects available on my GitHub profile:** [livfreund](#)
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TECHNICAL SKILLS

- Languages: Python, SQL, HTML/CSS, R, JavaScript, Java
 - Frameworks & Libraries: Tkinter, NumPy, Pillow, Pygame
 - Web Development: Responsive Design, DOM Manipulation, Local Storage, UI/UX Principles
 - Data & Visualization: Grafana, Tableau, Excel (Certified)
 - Concepts: Object-Oriented Programming, Data Structures & Algorithms, API Integration, Debugging
 - Tools & Systems: Git/GitHub, IoT Systems, Network Infrastructure, VSC Code, ChatGPT
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EXPERIENCE

Crawford County Memorial Hospital, Denison, IA

May 2025 – Present

Network Analyst

- Delivered frontline technical support to hospital staff, ensuring reliable access to critical systems and applications.
- Monitored and maintained network infrastructure to ensure secure and uninterrupted connectivity across all departments.
- Troubleshooted hardware and software issues efficiently to minimize downtime and support patient care operations.
- Played a key role in implementing new technology during a full building remodel

UNI Metal Casting & Foundry 4.0 Centers, Cedar Falls, IA

Oct 2024 – May 2025

Student IoT Assistant

- Designed and implement sensor data collection and analysis systems to enhance operational efficiency
- Completed and collaborate to complete multiple software development projects, ensuring seamless integration and readability
- Contributed to team-based initiatives to create data visualizations in Grafana, delivering actionable insights for stakeholders
- Demonstrated tangible ability to learn new technologies and programming languages and implement them to professional projects

Waverly-Shell Rock Community School District, Waverly, IA

May - August 2024

Information Technology Summer Intern

- Conducted district-wide inventory tagging, ensuring accurate tracking of all technology assets
- Set up and tested hardware including desktops, projectors, and network racks, to ensure functionality post-remodel
- Strengthened communication and collaboration skills while working on cross-functional IT projects
- Supported troubleshooting efforts, improving system uptime and operational efficiency
