

# Olivia Freund

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## EDUCATION

**Boston University Metropolitan College**, Boston, MA (Fall 2025 – Fall 2026)

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

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## PROFESSIONAL PROJECTS

- Printhead Classification Software: A set of programs able to assess the efficiency of 3-D printheads in rotation and identify those in need of replacement.
    - Visual Studio Code, Python, Python Libraries (Tkinter, Pillow, NumPy), UI
  - Service Selection Website: An interactive website to display a company's available services, enable users to select or remove any number of services, and calculate a subtotal based on their selections.
    - Visual Studio Code, HTML, CSS, JavaScript
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## EXPERIENCE

**Crawford County Memorial Hospital**, Denison, IA

May 2025 – Present

*Network Analyst*

- Provide frontline technical support to hospital staff, ensuring reliable access to mission-critical systems and applications.
- Monitor and maintain network infrastructure—including switches, firewalls, and wireless systems—to ensure secure and uninterrupted connectivity across all departments.
- Troubleshoot hardware and software issues efficiently to minimize downtime and support patient care operations.
- Played a key role in the hospital-wide technology integration during a full building remodel

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

Oct 2024 – May 2025

*Student IoT Assistant*

- Design and implement sensor data collection and analysis systems to enhance operational efficiency
- Collaborate on IoT infrastructure projects, ensuring seamless integration and systems reliability
- Proficiency in Grafana to create data visualizations, delivering actionable insights for stakeholders
- Contributed to team-based initiatives to optimize sensor-based analytics and reporting
- Publicly available projects available on GitHub: [livfreund](https://github.com/livfreund)

**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
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## TECHNICAL SKILLS

- Data Analysis & Visualization: Excel, Grafana, Tableau, and Power BI (familiar), Word, PowerPoint
- Programming Languages: Python, SQL, HTML, CSS, R, Java (basic knowledge), JavaScript (basic knowledge)
- Tools & Technologies: IoT Systems, Data Collection & Analysis

## ACHIEVEMENTS & ACTIVITIES

- Division 1 Track & Field Team, University of Northern Iowa (2021 – 2024):  
Demonstrated leadership, discipline, and teamwork as a collegiate athlete
- Excel Certification (2021): Proficient in advanced Excel functions for data manipulation and analysis

