

# Mateja Milicevic

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## Professional Experience

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| <b>Food AI and Engineering Lab,</b><br><i>Undergraduate Research Assistant, Biosystems and Agricultural Engineering</i>  | 10/2023 – present<br>East Lansing, MI |
| <ul style="list-style-type: none"><li>• Created a model to predict soil chemical features using microbiome data for a CPS grant proposal</li><li>• Recreated CNN-MGP paper for potential future use</li></ul>  |                                       |
| <b>QMRA Wiki, Technical Assistant II, Biosystems and Agricultural Engineering</b>  | 12/2022 – present<br>East Lansing, MI |
| <ul style="list-style-type: none"><li>• Developed a data automation tool utilizing Python and Pandas to streamline processes and improve efficiency of extracting MSU campus sewer water flow data</li><li>• Created a Dose Response App using Streamlit and hosted it on the organization server</li><li>• Deployed and maintained various apps</li></ul> |                                       |

## Projects

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| <b>DRIFT, NASA USRC, Data Scientist</b>   | 02/2024 – present |
| <ul style="list-style-type: none"><li>• Working on creating a kinematic model for predicting UAVs position using telemetry data</li></ul>   |                   |
| <b>gitlinked(NASA Space Apps2023 Global Nominee, Top 32 Open Science Category), Developer</b>   | 10/2023 – 11/2024 |
| <ul style="list-style-type: none"><li>• Developed open-source solution for connecting open-source projects with developers looking for contributions</li><li>• Made at NASA Space Apps 2023 and ended Top 32 in Open-Science category out of 5800+ teams</li><li>• Created Next.JS website that communicates with Supabase and Django server for scripts that extract user/repo data using GitHub API</li></ul> |                   |
| <b>cardeB - Spartahack 2024 Fintech Track Winner, Developer</b>   | 01/2024           |
| <ul style="list-style-type: none"><li>• Developed an app in Swift that lets you share meta-business cards using new iOS feature NameDrop</li><li>• Created functionality for requesting money using Apple Pay and Name Drop making it one of the first apps on the market to do so</li><li>• Won Fintech track at Michigans's biggest hackathon with 600+ participants</li></ul>                                |                   |
| <b>emptyML, Automation WebApp Tool(Client Project)</b>  | 07/2023 – 09/2023 |
| <ul style="list-style-type: none"><li>• Developed a web app to identify unfurnished Zillow properties using CNNs made in PyTorch.</li><li>• Built a React front-end with a Node.js API, utilizing MongoDB Serverless for data storage.</li><li>• Containerized the app with Docker and deployed on RunPods.io</li></ul>   |                   |
| <b>MultiscaleXSystem Lab, Computational Neuroscience</b>  | 10/2023 – present |
| <ul style="list-style-type: none"><li>• Mentored by Dr Mengsen Zhang, learning about Neural signal processing and Temporal Data Analysis</li><li>• Project based on data from this paper:</li></ul>   |                   |

Mengsen Zhang, Guillaume Dumas, J.A. Scott Kelso, Emmanuelle Tognoli,  
Enhanced emotional responses during social coordination with a virtual partner,  
International Journal of Psychophysiology

## Organizations

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### **Imagine Software Club at MSU**, *President and Founder*

01/2023 – 11/2023

- Founded and presided over a student organization dedicated to providing real-world software projects from startups and Michigan State University faculty
- Established key partnerships with university faculty and local startups to secure a diverse range of project opportunities for student skill development
- Facilitate project coordination and team formation

East Lansing, MI

## Education

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### **Computational Data Science B.S.**, *Michigan State University College of Engineering*

East Lansing, MI

- GPA: 3.5
- Relevant coursework: Statistics and Machine Learning, Data Structures, Mathematics
- Activities: Student Investment Association, MMA Club, IM Soccer League

## Volunteering

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### **Datathon4Justice Lead Organizer at MSU**

11/2023

- Lead the organization of yearly Datathon4Justice event at Michigan State University
- Worked closely with event creators QSide Institute

East Lansing, MI