

# Mathew Behnke

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## SUMMARY

Junior Software Engineering student at Milwaukee School of Engineering with strong skills in Java, Python, C++, and Git. Experienced in developing software solutions through academic projects and hands-on practice. Eager to apply technical knowledge to real-world challenges and contribute to collaborative engineering teams.

## EDUCATION

**B.S in Software Engineering, Minor in Data Science** | Milwaukee School of Engineering | Expected May 2027

## PROJECT EXPERIENCE

### ASL Letter Recognition – Computer Vision & Deep Learning

- Built a convolutional neural network (CNN) to classify American Sign Language letters from image data
- Applied data augmentation and transfer learning to maximize accuracy of the CNN
- Compared CNN performance to a traditional baseline logistic regression model

### Wordle Project – Software Engineering Project

- Collaborated with a team to develop a Wordle-style word-guessing game in Java
- Built a login system with file I/O to securely store user credentials and player statistics
- Designed stat sheets and implemented recommendations based on previous gameplay data
- Contributed to the design and development of the GUI in JavaFX, including leaderboard and session timer features

### Student Performance Analysis Project | Python, Pandas, scikit-learn

- Cleaned and preprocessed student records with Pandas, handling missing values and encoding categories
- Performed statistical tests (Pearson, Kruskal-Wallis) to identify significant predictors of exam performance
- Built and evaluated Random Forest regression models
- Visualized feature relationships and model insights using Matplotlib and Seaborn

### ROSIE Dashboard (In Progress) | React, JavaScript, Docker

- Inheriting and extending a supercomputer metrics dashboard originally developed by previous students
- Developing a React-based web client to display CPU, GPU, memory, and network usage in real time
- Integrated front-end components with backend API endpoints to replace mock data with live data
- Worked within a containerized development environment using Docker and collaborated via GitLab using feature branches and code reviews

## TECHNICAL SKILLS

- |           |                    |                   |
|-----------|--------------------|-------------------|
| ▪ Java    | ▪ AWS              | ▪ User Experience |
| ▪ Python  | ▪ API Deployment   | ▪ Docker          |
| ▪ C / C++ | ▪ Typescript       | ▪ React           |
| ▪ Git     | ▪ Machine Learning | ▪ JavaScript      |

## WORK HISTORY

### Electrical Technician | Tech 4 LLC | June 2022 – August 2025 | Seasonal 40 hrs per week |

- Wired electrical panels, high voltage switch gears, and robot arms.
- Extensive knowledge of Square-D, Siemens, Schnider Electric, ABB, BNR, and Arcteq products
- Experience through installations at customer plants and foundries