

# Benjamin Weber

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Senior Computer Science student at Milwaukee School of Engineering specializing in AI and machine learning. Experienced in developing Transformer models and applying multimodal LLMs to real-world problems. I am proficient in Docker, Git, MongoDB, and SQL. Demonstrated leadership through technical club involvement and collaborative projects. Seeking to apply technical expertise and passion for AI in innovative tech environments.

## Education

B.S. Computer Science | Milwaukee School of Engineering | Senior | May 2026

## Internship Experience

### Business Intelligence Intern | MP Systems

Implemented a data extraction system for unstructured PDF invoices by integrating multimodal large language models with vision capabilities, enabling automated line-item processing and reducing manual data entry. Developed interactive Power BI reports with DAX and SQL to provide actionable insights and improve internal team efficiency in financial and operational workflows.

## Projects

### MoonBoard Route Difficulty Classification | Python

Developed an attention-based Transformer model with the MSOE AI Club to classify MoonBoard climbing routes. Co-authored a research paper and presented results at the Midwest Instruction and Computing Symposium.

### Portfolio Website | Python, React

Developed and deployed a full-stack personal portfolio website with a React frontend and FastAPI backend to showcase projects, skills, and experience. The site is hosted on a Raspberry Pi using Docker and Cloudflare Tunnels, with automated CI/CD pipelines implemented in GitHub Actions to ensure seamless updates and containerized deployment.

## Skills

Programming Languages	Java	Python	C	C++	C#	Typescript
Data & ML Tools	Pandas	NumPy	Matplotlib	TensorFlow	PyTorch	Jupyter
DevOps & Tools	Docker	GitHub	GitHub Actions	CI / CD	Bash / Shell	
Databases	MongoDB	SQL				
Visualization & BI	Power BI	DAX	Microsoft Suite			
Web Development	React	FastAPI				

## Clubs & Organizations

MAIC – MSOE AI Club

2021 - Present

Gained hands-on experience with AI projects. Co-authored and presented a research paper on machine learning for climbing route difficulty classification at the MICS Research Paper Competition.

SSE – Society of Software Engineers

2021 - Present

## Work History

Assistant Manager	Ace Hardware	June 2020 - August 2024
Library Circulation Assistant	Walter Schroeder Library	August 2024 - Present