

Benjamin Weber

Milwaukee, WI • 651-323-8374 • weberbw.com

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