**Zachary Mork**

AI & ML Learning Engineer | Minneapolis, MN 55082 | 715-716-0295 | [morkzachw@gmail.com](mailto:morkzachw@gmail.com)

LinkedIn.com/[in/zachary-mork](http://www.linkedin.com/in/zachary-mork) | [github.com/Morkenson](https://github.com/Morkenson) |[zachary-mork-portfolio.dev](https://zachary-mork-portfolio.dev/)

**EDUCATION**

**University of Wisconsin, Platteville** **Platteville, Wisconsin**

*Bachelor of Science in Software Engineering* ***|*** *Minor in Cybersecurity May 2026*

* **GPA:** 3.6/4.0
* **Certifications:** AWS Certified Cloud Practitioner *September 2025*
* **Relevant Coursework:** Data Structures, Algorithms, Operating Systems, Object-Oriented Design, Software Security, Computer Networks, Embedded Systems, Statistical Methods with Applications

**EXPERIENCE**

**CSSE Department, University of Wisconsin-Platteville Platteville, Wisconsin**  *Research Assistant September 2025 - Present*

* Focused on AI-driven robotics; implemented object detection and obstacle avoidance using Python**,** OpenCV, and TensorFlow Lite on embedded systems
* Tuned inference performance to achieve <150 ms end-to-end latency at 1080p
* Contributed to data collection, labeling, and optimization of trained models for real-time deployment

**RELEVANT TECHNICAL EXPERIENCE**

**Premier League Match Predictor** -Python, Flask, PostgreSQL, Scikit-learn, Pandas, NumPy

* Developed a supervised learning model using Logistic Regression to predict match outcomes with 70% accuracy based on historical Premier League data
* Engineered end-to-end ML pipeline data ingestion, feature engineering, model tuning, and Flask-based deployment to a PostgreSQL backend
* Applied cross-validation and hyperparameter optimization to boost model accuracy by 12%

**Real-Time Messaging Application** -Node.js, React, Express, MySQL, Socket.IO, Cryptography

* Built a full-stack chat application enabling users to send and receive messages in real-time
* Integrated WebSockets to deliver instant notifications, typing indicators, and seamless message exchange
* Implemented the user interface using React, leveraging its component-based architecture for modular development

**Password Manager** - Python, Flask, PostgreSQL, Cryptography, Bcrypt

* Engineered a secure, cross-platform password manager with AES-256 encryption and multi-factor authentication
* Implemented encryption and hashing using Python Cryptography and Bcrypt, following OWASP security principles

**SKILLS**

**Languages:** Python, SQL, C/C++, Java/Type Script

**AI/ML tools:** Scikit-learn, Pandas, NumPy, TensorFlow, PyTorch, OpenCV, Matplotlib

**Frameworks & Cloud:** Flask, React, Express, AWS (EC2, S3, RDS, IAM, CloudWatch), Terraform

**DevOps & Data:** Docker, Git, CI/CD, Jenkins, Linux, PostgreSQL, MySQL

**Core Strengths:** Machine Learning, Model Deployment, Computer Vision, Data Analysis, Cloud Integration

**LEADERSHIP & ACTIVITIES**

**Soccer (Captain, All-Conference)**: Led a 25-person team, fostering communication, accountability, and collaboration