TREVER FUHRER

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EDUCATION

University of Wisconsin–Milwaukee **Milwaukee, WI**
B.S. in Computer Science (Integrated BS–MS Program), Sep 2022 – May 2026
- Minor: Information Science & Technology • Certificate: Cybersecurity
- GPA: 3.41 • Dean's List (4 semesters)
- Relevant Coursework: Data Structures & Algorithms, System Programming (C), Machine Learning Applications (PyTorch/Keras), Algorithm Design & Analysis, Linear Programming & Optimization, Database Systems (MySQL), Ethical Hacking

PROJECTS

Etherlink − Discord ↔ Minecraft Integration Suite
- **Tech**: Python, Java, WebSockets, Fabric/Paper API.
- Designed a scalable integration suite connecting multiple Minecraft servers to a single Discord bot.
- Implemented real-time chat relay, moderator tools, and player status synchronization via WebSockets.
- Automated server communication pipelines under Discord API rate limits.

Machine Learning Fall Detection System
- **Tech**: Python, XGBoost, PyTorch, Fabric API.
- Built Fabric mod to log player movement data at 20 Hz for predictive model training.
- Developed preprocessing and feature extraction pipeline with sliding window buffering.
- Achieved 85% valid model accuracy after resolving data leakage; visualized results using Matplotlib.
- Planned live inference and dashboard integration for real-time feedback.

University Course Manager − Django Enrollment System
- **Tech**: Python, Django, HTML/CSS, MySQL.
- Collaborated in a 5-member Agile Scrum team to build a role-based course enrollment system.
- Developed complete Instructor module with approval workflows and consistent UI/UX.
- Contributed to Administrator features and authored 58 automated tests following TDD principles.

EXPERIENCE

Search Quality Rater **Jun 2025 − Sep 2025**
TELUS International *Remote*
- Evaluated 120–180 AI-generated search results weekly for accuracy, relevance, and quality.
- Maintained 95%+ QA score through consistent analytical review and strict guideline adherence.
- Used proprietary dashboards and browser tools to enhance machine learning model quality.

Inventory Coordinator **Jun 2022 − Feb 2024**
All Comfort Services *McFarland, WI*
- Managed daily tracking of 200+ inventory items, reducing retrieval time by 25%.
- Improved labeling and organizational systems to streamline part availability and accuracy.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, JavaScript/TypeScript, Swift, HTML, CSS, SQL (MySQL), JSON, Typst
Frameworks & APIs: Django, Fabric API, REST, WebSockets, Matplotlib, Hugging Face API
Tools & Platforms: Git/GitHub, VS Code, Xcode, Linux, Docker, Vercel (deployment), Burp Suite, Virtual Machines (Windows & Kali)
Machine Learning: XGBoost, PyTorch, Keras (course & project exposure)
Practices: Agile (Scrum), Test-Driven Development (TDD), Unit Testing (Django, PyTest), System Integration

ACHIEVEMENTS & ACTIVITIES

Cyber Security Club (CEAS) - Member
Google Developer Student Club (GDSC) - Member