

Michael C. Eaton

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Work experience

Teaching Assistant - Rich Media Web Development Rochester Institute of Technology ROCHESTER, USA	Jan '26 - Present
<ul style="list-style-type: none">Provide technical mentorship for undergraduate students, utilizing advanced debugging techniques to resolve complex logic errors and unblock student progress during development cyclesEnforce industry-standard engineering practices during code reviews, emphasizing proper version control (Git) workflows, modular architecture, and clean code principles to prepare students for professional roles	
AI Trainer - Coding Expert Confidential REMOTE	Oct '25 - Present
<ul style="list-style-type: none">Conducted line-by-line technical QA on 500+ Python and Java code snippets, debugging syntax errors and edge cases to ensure training data functionalityEvaluated model reasoning across 5+ turn conversations, ranking outputs based on logical consistency, hallucination rate, and adherence to complex prompt constraintsMaintained a 99% accuracy rating on technical evaluations, exceeding the project's quality threshold	
Developer - Sector Down Rochester Institute of Technology ROCHESTER, NY	Aug '24 - Dec '24
<ul style="list-style-type: none">Engineered a custom low-level networking layer from scratch, implementing optimized message serialization to maintain sub-second state synchronization for up to 20 concurrent clients.Developed an internal data entry tool to replace error-prone manual CSV editing, reducing the time required to input complex card stats and art assets by approx. 80%	
Development Team Lead - Peaceland Rochester Institute of Technology ROCHESTER, NY	May '24 - Dec '24
<ul style="list-style-type: none">Led a cross-functional team of 20 developers and designers, implementing Agile workflows (Trello) to coordinate feature integration and deliver a playable Unity prototype on a 4-month timeline	

Education

Data Science Masters of Science Rochester Institute of Technology ROCHESTER, NY	Aug '25 - Present
<ul style="list-style-type: none">GPA: 4.0Relevant Coursework: Applied Statistics, Machine Learning, Simulation Optimization, Database Systems, Digital Twins (Capstone).	
Game Design and Development Bachelors of Science Rochester Institute of Technology ROCHESTER, NY	Aug '22 - Dec '24
<ul style="list-style-type: none">Awards: Dean's List (All Semesters 2022–2024)	
Skills <ul style="list-style-type: none">AI & Machine Learning: Python (Scikit-learn, Pandas, NumPy), Deep Reinforcement Learning (DRL), Large Language Model (LLM) Evaluation, NLP Context Analysis, PyTorch, TensorflowSimulation & Systems: Unity3D (C#), Digital Twins, Linear Programming (LP), Stochastic ModelingDevelopment & Tools: Git/Version Control, SQL (PostgreSQL), API Integration (REST), AWS, React	

Projects

Analysis of Deep Reinforcement Learning in Stochastic Job Scheduling Rochester Institute of Technology ROCHESTER, NY	Dec '25 - Present
<ul style="list-style-type: none">Designing a high-fidelity Unity3D Digital Twin to simulate stochastic industrial environments with 100+ dynamic variables.Architecting a DRL agent framework (using Unity ML-Agents) to target a hypothetical 15% improvement in resource allocation compared to greedy heuristicsDefining an experimental pipeline to stress-test agent recovery against randomized failure scenarios (e.g., machinery breakdown, supply chain lag)	
Resource Allocation & Production Optimizer Rochester Institute of Technology ROCHESTER, NY	Sep '25 - Present
<ul style="list-style-type: none">Formulated a Linear Programming (LP) model to solve complex resource allocation problemsEngineered and deployed a full-stack web application that interfaces with the optimization engine, allowing users to define production targets and receive mathematically optimal factory schemas	
Diabetic Patient Readmission Modeling Rochester Institute of Technology ROCHESTER, NY	Oct '25 - Dec '25
<ul style="list-style-type: none">Designed an end-to-end Machine Learning pipeline to predict hospital readmissions, handling data imbalance and feature engineering to maximize cost savings and improve patient careConducted a cost-benefit analysis using a financial cost matrix, identifying an optimal decision threshold that projected an average saving of \$37.69 per patient (approx. \$37k per 1,000 admissions) via targeted intervention	