

JIM SHEPICH

Data Science | AI/ML | Full-Stack Development

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Experience

Data Visualization Specialist

MARCQI

🌐 marcqi.org

📍 Ann Arbor, MI

📅 2022 - Present

- Integrated **automation** into coordinating center tasks using Python, Excel, and Node.js, saving hundreds of human hours annually
- Configured and operated RHEL 8 server and **deployed multiple full-stack applications** supporting coordinating center operations and enhancing participants' experience
- Developed dashboard with control charts to monitor surgical outcomes and support **root cause analysis** of complications
- Introduced **DevOps** practices including source code management and containerization to the organization

Data Science Lead

Happy Slaying Studios

🌐 happyslaying.gg

📍 Midland, MI (Remote)

📅 2022 - Present

- Developed and implemented **reinforcement learning** algorithms to train AI models for computer player units
- Modeled human player strategies with **deep neural networks**, empowering AI opponents to outperform all human playtesters
- Conducted playtests and developed framework for **telemetry** and **gameplay data analysis**
- Designed **database schemata and APIs** for game data and AI models
- Contributed to **marketing and monetization** strategies by providing insight into user behavior and preferences

Research Mentor

Polygence

🌐 polygence.org

📍 Remote

📅 2022 - Present

- Empowered high-school students to develop skills in data science, AI/ML, and CS through **project-based learning**
- Supervised **5 independent research projects**, including detection of fraudulent news articles and analysis of a Netflix dataset

Assistant in Research

Wolfe Group - University of Michigan

🌐 sites.lsa.umich.edu/wolfelab

📍 Ann Arbor, MI

📅 2018 - 2021

- Spearheaded team researching novel reactions, culminating in two **publications** in *Organic Letters* (DOI: 10.1021/acs.orglett.2c03308, 10.1021/acs.orglett.3c00954) and an honors **thesis**
- Explored **innovative** purification methods to achieve unprecedented levels of product purity and reduce synthetic routes by several days
- **Took initiative** to optimize lab operations including fixing defunct analytical equipment, writing documentation, and manufacturing new product storage units (saving over \$8000 in replacement costs)

Education

Master of Science in Data Science (4.0 GPA)

Johns Hopkins University, 2022

Bachelor of Science in Chemistry (3.97 GPA)

University of Michigan, 2020

Highest Honors and Highest Distinction

Technical Skills

📄 Languages

Python JavaScript Julia R PHP

SQL jQuery HTML CSS LaTeX

🧠 AI & Machine Learning

Deep Learning Reinforcement Learning

NLP LLMs Text-to-Image TSA

Tensorflow PyTorch Scikit-Learn

CUDA Flux OpenAI API NLTK

🗄️ Data Management & ETL

REST APIs SQLite Pandas Excel

📊 Data Visualization

Plotly Dash Tableau Power BI

🏗️ Full-Stack & Server Architecture

Node Express Flask FastAPI

NGINX MySQL SSL WebSockets

⚙️ DevOps

Docker Git Linux TDD

Projects

- **TikTok Retrieval** 🗣️: investigation of speech recognition, image processing, and information retrieval methodology to improve TikTok search and recommendation
- **Shepich.io Self-Hosting**: development, operation, and maintenance of 🌐 **shepich.io** website and self-hosted services including text-to-image and large language model (LLM)
- **Jimflix**: self-hosted streaming service with personally-curated collection of shows, movies, live IPTV stations

Interests & Activities

- 🔧 DIY Projects
- 🕺 Swing and Latin Dance
- 👊 Martial Arts (black belt in jūjutsu)
- 🐉 Dungeons & Dragons
- 🗣️ Foreign Languages (conversational Japanese and limited Spanish)