Mark Shtevn

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EDUCATION

Case Western Reserve University

Aug. 2023 – May 2027

Bachelor of Science and Engineering in Data Science and Mathematics, Minor in AI

Cleveland, OH

EXPERIENCE

Machine Learning Researcher

Sep 2024 – Present

Center of Excellence for Materials Data Science (MDS3), SDLE Research Center

Cleveland, OH

- Researched methods for laser powder bed additive manufacturing using Spatio-Temporal Graph Neural Networks.
- Developed image segmentation models for a scalable library on materials data to enhance analysis and processing efficiency.
- Built and trained a cGAN model to generate synthetic images for datasets with limited samples.

Head of IT Jun 2025 - Present

AI in Medicine & ELEOS

Cleveland, OH

- Built and manage AIIM's website (an AAMC-recommended nonprofit organization), hosting 500+ student-written summaries as a database delivering accessible medical AI research summaries for physicians and academic institutions.
- Designed and maintain publication pipelines enabling writers to review and publish medical AI summaries seamlessly.

Machine Learning Intern

Jun - Aug 2022 / 2023 / 2024

EPIC Insurance Brokers & Consultants

Jersey City, NJ

- Built an internal LLM chatbot for policy/procedure Q&A; benchmarked chunking strategies (fixed, recursive, semantic) with varied sizes/overlap to improve retrieval accuracy and latency.
- Solo developed a web-based tool for multiple sister companies to automate record-matching using embeddings and LLMs.

PROJECTS

- orca (Jul 2025 Present): LLM-driven machine learning automation that turns a dataset + problem statement into a working pipeline. It generates, runs, and evaluates code inside a sandboxed Docker container and iteratively optimizes models using an evolutionary hyperparameter search before exporting reproducible notebooks/scripts and a metrics report.
- anyvec (Mar 2024 May 2024): Open-source package to vectorize text, images, video, audio; Dockerized client-server with modality-specific preprocessing (CLIP + Tesseract + Whisper); integrates with Weaviate/FAISS for cross-modal search, achieving 300+ weekly downloads at launch.
- campusreach (Aug 2025 Present): Student-centered volunteering hub for CWRU, connecting students with local nonprofits through a centralized platform. Features include SSO authentication, searchable volunteer directory, QR-based hour verification, reward system (Case Cash/credit), community feed, and scalability to other universities

ACTIVITIES

6x Hackathon Winner Feb 2024 - Present

 2nd/500+ at Meta Llama3 Hackathon; 1st/50+ at CWRU DataFest 2024; 3rd/170+ at HackCWRU 2024; 3rd/100+ at Kent State Hackathon; 5th/250+ at Supabase x Build Club Hackathon; 2x Finalist at Morgenthaler-Pavey Startup Competition.

HackCWRU Co-President Oct 2024 - Present

• Raised \$13K+ in prizes; built website and handled mailing operations; hosted 150+ participants. Led hackathon design, coordinated a panel of judges, and mentored teams through their projects.

Head TA, National Student Leadership Conference

Jun 2025 – Aug 2025

• Mentored 150+ high school students at UC Berkeley and Duke University in Python, ML, computer vision, and LLMs, designing beginner-friendly Jupyter notebooks, project rubrics, and guiding teams from ideation to demo-ready capstones.

Team Lead, Data Science Challenge at LLNL

Jul 2024 - Aug 2024

 Developed algorithms for high-resolution electro-anatomical mapping of cardiac activity by integrating multi-modal 12-lead ECG data with ML, while guiding 4 students and teaching deep learning basics.

Neurotechnology Club Founding Executive (Neurex)

Aug 2024 – Present

Taught 50+ members; built website; authored a deep learning curriculum; hosting weekly office hours; leading an EEG-toimage reconstruction project.

xLab Engineer for Weatherhead School of Management

Sep 2025 – Dec 2025

• Developing an MVP design for a tool that measures and benchmarks corporate AI adoption and maturity for competitor analysis for the Weatherhead School of Management.

TECHNICAL SKILLS

Languages: Python, Go, Rust, Java, SQL, JavaScript/TypeScript, HTML, CSS, R

Frameworks: React/Next, Node/Express, Flask/FastAPI, PostgreSQL, Prisma, Docker, OAuth2, Tensorflow/Pytorch, AWS/GCP