

Riley Silber, DO

Internal Medicine Resident Physician · Co-Founder, MedMatrix

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— EDUCATION & TRAINING

Internal Medicine Residency

University of Cincinnati
2026 – Present

Doctor of Osteopathic Medicine (DO)

Midwestern University
– Chicago College of
Osteopathic Medicine
2021 – 2026

BS, Chemical &

Biological Engineering

Colorado School of Mines
2015 – 2019

— HONORS & CERTIFICATIONS

Gold Humanism Scholar

Midwestern University
2023

USA Swimming

Coach Certification

USA Swimming
2024

— SERVICE

Medical Student Volunteer

IAMACF Free Health Clinic,
Chicago area
2021 – 2022

Head Swim Coach

Team Millenium Y2K, Oak
Park, IL
2024 – 2025

Project Manager

Be A Tool Community Service,
Golden, CO
2015 – 2019

— INTERESTS

Exercising, Cooking, Dungeons
& Dragons, Reading

— EXPERIENCE

Co-Founder, MedMatrix

Chicago, IL

2023 – Present

- Co-founded MedMatrix, an AI-driven study platform delivering dynamic, high-yield practice materials for healthcare students preparing for board exams.
- Scaled to thousands of users nationwide by forging strategic institutional partnerships and leading targeted marketing campaigns.
- Represented MedMatrix at AACOM Educating Leaders and AOA Convocation.
- Oversaw product development, marketing, sales, customer success, social media, and daily operations — taking a one-year leave from medical school to accelerate growth.

Co-Creator, BAND-O2 Pulse Oximeter Fitness Device

Chicago, IL

2022 – 2023

- Designed, engineered, and prototyped a wearable pulse oximeter for blood-flow restriction (BFR) exercise and therapeutic recovery.
- Conducted iterative performance testing to validate sensor accuracy and user comfort. Development is currently paused.

Associate Engineer, GTI Energy

Des Plaines, IL

2019 – 2021

- Led commissioning and testing of DOE-funded renewable energy projects, performing material and energy balances and interpreting experimental data.
- Designed and sized pilot-scale equipment with detailed process flow diagrams (PFDs) and piping & instrumentation diagrams (P&IDs).
- Developed standard operating procedures, authored job safety analyses, and served on the corporate safety committee.

— RESEARCH

Revisiting Robustness: Evaluating CLAHE and Test-Time Augmentation for Catheter Segmentation in X-Ray Fluoroscopy

Journal of Vascular and Interventional Radiology (SIR 2026 Annual Scientific Meeting, Abstract No. 288) · Published, Apr 2026 ·
doi.org/10.1016/j.jvir.2026.108315

Evaluating the Impact of Institutional Curriculum-Controlled AI Study Materials on Biochemistry Exam Performance Among Medical Students

MedMatrix × Midwestern CCOM · Under review, Sep 2025

The Efficacy of AI-Generated Questions on Medical and Nursing Student Knowledge Acquisition and Efficiency: A Learning Curve Analysis

Journal of Academic Medicine · Submitted, Jun 2025

Creating Continuity of Care Within Student-Run Free Clinics

Journal of Student Run Clinics · Published, Dec 2024 ·
doi.org/10.59586/jsrcl.v10i1.474