MICHAEL SADOWITZ

michaelsadowitz@gmail.com | **908-907-3086**

Innovative full-stack programmer with extensive experience in artificial intelligence, machine learning, and deep learning implementation. Proven ability to design and deploy advanced algorithms, including a successful trading algorithm leveraging deep learning to assess market volatility in cryptocurrency and stock markets. Adept at creating custom AI solutions, developing immersive virtual reality applications, and leading technical teams to deliver cutting-edge projects.

WORK EXPERIENCE

Freelance AI & Machine Learning Developer
New York City | March 2019 – Present
• Designed and implemented AI solutions for diverse industries, including finance and technology.
• Developed an AI supercomputer for autonomous blockchain trading, optimizing cryptocurrency and stock market transactions.
• Created custom Linux-based operating systems tailored for AI applications.
• Provided consulting services for AI-driven marketing, website, and app based solutions.
• Managed product development and marketing strategies for B2B/B2C applications.

Associate VFX Artist & Technical Director, VR | HBO
New York City | February 2016 – June 2019
• Directed HBO's in-house virtual reality production operations, including hardware and software upgrades for VR post-production.
• Programmed and designed VR applications for Android platforms using Python, C, C++, C#, Unity, and Unreal Engine.
• Led teams to produce interactive and immersive experiences for platforms such as Vive, Oculus, and GearVR.
• Explored volumetric and point cloud rendering solutions to enhance VR production workflows.

NOTABLE PROJECTS AND RESEARCH

Deep Learning Trading Algorithm • Developed a proprietary algorithm to assess market volatility in cryptocurrency and stock markets, achieving consistent performance improvements.
Custom AR/VR Software • Designed internal software solutions for post-production processing, enhancing efficiency in virtual reality workflows.
AI Supercomputer • Built a high-performance computing system for autonomous blockchain trades, integrating machine learning models for predictive analytics.

EDUCATION

M.A., New York University | August 2025
B.A., New York University | May 2016
NYU Gallatin School of Individualized Study

TECHNICAL TOOLS

Programming Languages Python, C, C++, C#, JavaScript, HTML/CSS
AI & Machine Learning Deep Learning (CUDA, practical knowledge of TensorFlow, PyTorch)
Virtual Reality Platforms Unity, Unreal Engine, SteamVR
Software Expertise Adobe Creative Suite, Autopano, AVID, Maya, 3DsMAX
Other Skills Custom Linux-based OS development, blockchain integration, MS Office Suite

SKILLS

Proficient in developing and implementing AI driven algorithms, neural networks, and quantum assessments to solve complex problems and optimize decision-making.

Experienced in leveraging GPU-driven architectures, symbolic computation, and high performance computing to process large-scale data and execute real-time analysis.

Adept at designing scalable, low-latency systems, integrating APIs, and utilizing frameworks such as CUDA for deep learning applications.

Demonstrates innovative problem-solving skills and the ability to adapt to dynamic challenges, making a significant impact in AI and computer science solutions.

AFFILIATIONS

2024: Attendee, NVIDIA GTC in San Jose
2018: Presenter, TEDx Lincoln Center: Looking Beyond