

DAVID LEONARD NAGY

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SUMMARY

Undergraduate CS student and ML Engineer with 9+ years of programming experience and two IOAI medals (Silver 2024, Bronze 2025). Focus in reinforcement learning, NLP, and transformer architectures, backed by a published thesis and hands-on experience shipping ML systems from research through full-stack and cloud deployment — most recently as founding engineer of an early-stage AI startup.

EDUCATION

Bachelor of Science: Computer Science Aug 2025 - May 2029 (Expected)
Northwest Missouri State University, Maryville, MO GPA 4.0/4.0

SKILLS

Programming Languages: Python, Javascript, Typescript, C++, C#, Java, HTML/CSS, SQL
AI/ML: PyTorch, TensorFlow, Hugging Face (Transformers/Datasets), Weights & Biases, NumPy, Pandas, Scikit-learn, Reinforcement Learning, NLP, Transformer Architectures, Computer Vision
Web & Cloud: React, Next.js, Node.js, Bun, GCP, AWS, Firebase, Docker, Kubernetes, CI/CD
Infrastructure & Tools: Linux, Proxmox, Git, PostgreSQL, Caddy, Prometheus, Grafana, WebSockets, REST APIs, Server Architecture, pytest

PROJECTS

Ecotorch  Apr 2026 - Present
• Built and published a plug-and-play PyTorch tool that measures the energy use and computational efficiency of training and inference runs.

Project Horizon Apr 2023 - Dec 2025
• Founded a student IT modernization initiative and shipped a mobile app to both the Google Play Store and Apple App Store.
• Owned the full product lifecycle — UX design through deployment — while coordinating a cross-functional student team; the app has 400 concurrent users at the school.

Self-Hosted AI Assistant with Home Automation Integration  Jun 2021 - Present
• Built and maintain a self-hosted AI assistant (Proxmox, Ollama) integrated with home automation, media management, and productivity tooling on personal infrastructure.

WORK EXPERIENCE

Founder & CTO Jun 2026 - Present
SynthinAI | Budapest, Hungary
• Co-founded and lead technical development of a Generative Engine Optimization (GEO) platform that measures how businesses are represented in ChatGPT, Perplexity, and Gemini answers.
• Built the core measurement pipeline that logs repeated, verbatim LLM answers to real buyer questions and extracts mention rate, ranking position, sentiment/stance, and citation signals for competitive benchmarking.
• Closed the company's first paying client.
• Own product and technical direction end-to-end, from architecture through client delivery

AWARDS & HONORS

President's Honor Roll May 2026
Northwest Missouri State University
• Attained a perfect 4.0 GPA through the first year

Bronze Medal Aug 2025
International Olympiad in Artificial Intelligence | Beijing, China
• Secured a Bronze Medal in the 2nd International Olympiad in Artificial Intelligence for demonstrating exceptional problem-solving skills and innovative thinking, competing against over 300 participants worldwide.

Silver Medal Aug 2024
International Olympiad in Artificial Intelligence | Burgas, Bulgaria
• Earned a Silver Medal at the International Olympiad in Artificial Intelligence by securing a top position among over 200 participants, showcasing exceptional problem-solving skills and innovative approaches to complex AI challenges.

RESEARCH EXPERIENCE

Vectorshake  Mar 2025 - Jun 2025
Independent/ELTE | Budapest, Hungary
• Designed a few-shot NLP framework improving transformer generalization via latent-space regularization and a dynamic, adaptive curriculum.
• Published a peer-reviewed TDK thesis contributing new techniques to low-resource NLP and few-shot learning.
• Matched state-of-the-art sentence-transformer accuracy while cutting training time by 40× in controlled benchmarks.