

Maksym Lan

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Education

University of Manitoba

Winnipeg, MB

Bachelor of Computer Science, Minor in Mathematics and Statistics; GPA: 3.92/4.5

Jan. 2023 – Aug. 2025

- Completed a 4-year degree in 2.5 years by taking 6+ courses per term, mastering AI, machine learning, and software development.
- Developed expertise in algorithms, data structures, and full-stack development through rigorous coursework and hands-on projects.

Experience

Junior AI Software Developer

Apr. 2024 – Present

Resilient AG

Winnipeg, MB

- Refined an AI-powered MVP to production-ready state using Django, SQLAlchemy, and Python, achieving 99.999% accuracy in SQL-to-language conversion.
- Enhanced user interface with UX/UI principles, increasing satisfaction by 50% and optimizing interaction flows with HTML, CSS, and JavaScript.
- Developed scalable backend supporting 10,000+ concurrent users, integrating Qdrant and LLMs for real-time data processing.
- Implemented secure vector database management via a web interface, streamlining admin operations using Agile methodologies.

Summer Student Technician

May 2025 – Aug. 2025

University of Manitoba

Winnipeg, MB

- Created an automated wheat plant infection detection system using Python, Skimage, and Matplotlib for hyperspectral image analysis.
- Developed an image-clearing algorithm with NumPy to remove noise, improving data accuracy for research purposes.
- Authored a research paper in LaTeX, preparing findings for publication in a scientific journal.

AI Software Developer Intern (Term 2)

Dec. 2024 – Mar. 2025

Resilient AG

Winnipeg, MB

- Single-handedly built a farmer-retailer marketplace platform using Django and SQLAlchemy, achieving 99.99% accuracy in query processing.
- Designed responsive UI with Tailwind CSS and JavaScript, reducing search time by 80% through optimized navigation.
- Developed a secure, scalable database schema and integrated LLMs, ensuring robust platform performance.

AI Software Developer Intern (Term 1)

Aug. 2024 – Nov. 2024

Resilient AG

Winnipeg, MB

- Developed a Django-based website with a 100GB Qdrant vector database, achieving 99.98% accuracy in LLM-driven responses.
- Designed responsive front-end and back-end components using HTML, CSS, and JavaScript for seamless user interaction.
- Implemented query limits and an admin interface for dynamic configuration, enhancing platform usability.
- Conducted rigorous testing to achieve 99.9% uptime, using Agile methodologies for iterative development.

CEO & Software Developer

Apr. 2020 – Jan. 2021

Prowir

Lviv, Ukraine

- Led development of a SaaS platform MVP using TypeScript, JavaScript, and Node.js, managing all phases from concept to deployment.
- Engineered modular features and a responsive website with React.js to showcase platform capabilities.
- Collaborated with stakeholders to ensure scalability and alignment with business requirements.

Vice President

May 2024 – Present

University of Manitoba Artificial Intelligence Club

Winnipeg, MB

- Organized neural network competitions and AI workshops, engaging 200+ students and increasing participation by 60%.
- Led a team of 6 executives to manage events and partnerships, developing Python-based AI projects to enhance technical skills.

Co-founder & Vice President

Nov. 2023 – Present

University of Manitoba Programming Projects Club

Winnipeg, MB

- Coordinated programming workshops for 50+ participants, focusing on Python and JavaScript development.
- Mentored 5+ teams in building and deploying applications, guiding them through coding and testing phases.

Scientific Researcher

Sep. 2017 – Feb. 2022

Junior Academy of Sciences

Lviv, Ukraine

- Authored astrophysics research papers using C++ for computational modeling and data analysis.
- Developed software for analyzing spectral data, contributing to scientific publications in LaTeX.

Projects

Winnipeg Public Transit Improvements Map | *Python, Django, Data Analysis, GitHub* Mar. 2025 – Apr. 2025

- Developed a data visualization platform using Django and Python to analyze transit enhancement needs, presented at DataThon 2025.
- Processed open data with Pandas to generate actionable insights for urban planning efficiency.

Food4U Platform | *Python, Django, HTML, CSS, GitHub*

Feb. 2025 – Mar. 2025

- Built a platform connecting farmers and businesses, using Django for backend and Tailwind CSS for responsive front-end.
- Designed scalable architecture to handle high user traffic, showcased at .DevHacks2025.

Calorie Tracker | *Java, Android, HSQLDB, GitLab*

Jan. 2025 – Apr. 2025

- Created an Android app for calorie and exercise tracking with features for meal and exercise planning.
- Led development and testing to ensure robust functionality and seamless user experience.

NASA Space App Challenge Project | *Python, Django, NumPy, Pandas, GitHub*

Oct. 2024 – Nov. 2024

- Developed an app to prioritize exoplanets for the Habitable Worlds Observatory, using Django and Python.
- Collaborated with a team to deliver a data-driven solution for NASA's challenge.

Personal Website | *React.js, JavaScript, Tailwind CSS, Node.js, GitHub*

Jul. 2024 – Present

- Built a portfolio website with React.js and Tailwind CSS to showcase projects and technical skills.
- Designed a responsive, user-friendly interface, optimizing for performance and accessibility.

React Chat App | *React.js, JavaScript, Tailwind CSS, Node.js, GitHub*

Jan. 2023 – Feb. 2023

- Developed a real-time chat application using React.js and Node.js, with a responsive UI built with Tailwind CSS.
- Implemented WebSocket integration for seamless messaging and tested for cross-browser compatibility.

Technical Skills

Languages: Python, JavaScript, TypeScript, Java, C++, SQL, R

AI/ML Tools: TensorFlow, Keras, PyTorch, Llama-index, LangChain, Qdrant, NumPy, Pandas, Skimage, Matplotlib

Web Development: Django, React, Node.js, SQLAlchemy, HTML, CSS, Tailwind CSS, Redux

Tools: Git, Docker, Linux, LaTeX, VS Code, Visual Studio, GitHub, GitLab

Soft Skills: Teamwork, Problem-Solving, Time Management, Agile Development, Cybersecurity