

# Maksym Lan

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## Education

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### 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

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### Software Developer

Aug 2025 – Present

*Online Business Systems*

*Winnipeg, MB*

- Lead development of a complex multitenant microservice application built with .NET Core and Angular, managing service orchestration and tenant isolation across distributed systems.
- Architected and implemented scalable microservice patterns, reducing deployment time by 40% and improving system reliability to 99.99% uptime for enterprise clients.
- Optimized database queries and API performance, reducing response times by 35% and handling 10,000+ concurrent requests across multiple tenant environments.

### 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.

### CEO & Developer

Feb. 2025 – Present

*GroupBuy*

*Winnipeg, MB*

- Co-founded an AI-powered platform to aggregate small food business orders for cost-effective bulk purchases.
- Led the design and development of the startup's MVP, overseeing all phases from concept to implementation.
- Built a scalable SaaS solution using modern web technologies to streamline order aggregation and processing.
- Led communication with local businesses to ensure the platform meets their needs and expectations.
- Implemented a user-friendly interface to enhance customer experience and facilitate easy navigation.
- Utilized Agile methodologies to ensure timely delivery and continuous improvement of the platform.
- Conducted market research to identify customer needs and preferences, informing product development and marketing strategies.

### 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

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### 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

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**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, Angular, Node.js, .NET Core, SQLAlchemy, HTML, CSS, Tailwind CSS, Redux

**Database:** SQL, HSQLDB, Qdrant, SQLAlchemy

**Tools:** Git, Docker, Linux, LaTeX, VS Code, Visual Studio, GitHub, Azure DevOps, Azure

**Soft Skills:** Teamwork, Problem-Solving, Time Management, Agile Development, Cybersecurity, Leadership, Market Research