

Max Jin

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EDUCATION

University of Waterloo

Sep. 2023 – Apr. 2028

Bachelor of Mathematics, Honours Statistics Co-op

Waterloo, ON

- Relevant Courses: Algorithm Design, Neural Networks, Graph Theory, Computational Discrete Optimization
- President of Events, UW Badminton Club

EXPERIENCE

Miovision Technologies

Sep. 2025 – Dec. 2025

Data Science Intern

Kitchener, ON

- Optimized ELT workflows in **Snowflake**, reducing downstream query and data load times by **65%**
- Engineered **Python** and **PowerShell** automation scripts to ingest, validate, and transform data from **AWS S3**
- Designed large-scale data pipelines in **Python** and **SQL**, processing **400M+** records across **30+** regions
- Resolved dashboard load failures by using **Parquet** to achieve **100x** compression on annual traffic data

Greenhouse

Jan. 2025 – Apr. 2025

Data Analyst Intern

Mississauga, ON

- Automated factory monitoring pipelines using **Python**, **REST APIs**, and **Azure**, cutting downtime by **50%**
- Eliminated **40+ hrs/week** of manual corrections by resolving a backend error affecting **20%** of **Shopify** sales
- Built a **JavaScript** service syncing inventory systems with **Shopify's** storefront, deployed on **Render**
- Developed a **Python/OpenCV** pipeline detecting sanitation events from a machine camera, storing records in **Azure Blob Storage** and syncing results to **Excel** spreadsheets
- Queried and transformed **3M+** row datasets using **SQL** to support internal reporting tools

Beyond Sciences Initiative

May 2024 – Dec. 2024

Data Analyst

Toronto, ON

- Cleaned and processed **1000+** conference registration entries using **Python** and **Pandas**
- Built Excel dashboards visualizing demographic trends to guide targeted marketing channels

University of Waterloo

May 2024 – Aug. 2024

AI and Cloud Project Analyst

Waterloo, ON

- Scheduled **Jira sprints**, delivering project milestones **15% ahead of schedule**
- Earned **Microsoft's AZ-900 Azure** and **AI-900 AI Fundamentals** certificates

PROJECTS

Interactive NBA Shot Chart Visualizer | *React, Three.js, Next.js, FastAPI, Vercel, NBA API*

- Built a full-stack web app using **React** and **Three.js** that renders 3D shot charts for various NBA players
- Developed a **FastAPI** backend service that aggregates player shot data from the NBA API
- Deployed the platform on **Vercel**, using **Next.js** for server-side rendering

Audio Generation with Transformers | *Python, NumPy*

- Implemented **transformer architecture** from scratch to generate new audio sequences from short samples
- Built key components including **token embedding**, **self-attention**, and **backpropagation**

Spotify Playlist Generator for Runners | *React, Express, Node.js, Figma, CSS, Spotify API*

- Built a full-stack app in **React** and **Node.js** that recommends songs with tempos that match a runner's pace
- Used the **Spotify Web API** for song filtering and playlist creation

Hand Gesture Identification | *Python, OpenCV, Scikit-Learn*

- Leveraged **OpenCV** and **Scikit-Learn** in a model that interprets basic hand gestures at a **90%** identification rate

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Javascript/TypeScript, Java, Bash, PowerShell, SQL

Tools: Git, Azure, AWS, Vercel, Postgres, MySQL, Snowflake, Terraform, Supabase, Firebase, Render, Claude Code

Libraries/Frameworks: React, Node.js, Next.js, Express, Three.js, Fast/Flask API, Tailwind

Data/ML: PyTorch, Scikit-Learn, OpenCV, Pandas, NumPy, R, MATLAB