

BHAVIK JAIN

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Education

University of Manitoba

Bachelor of Computer Science, Mathematics Minor

- Available full-time starting May 2026

Winnipeg, MB

Sept 2021 – Apr 2026

Technical Skills

Languages: Bash, C / C++, CSS, HTML, Java, JavaScript, JBase, Kotlin, Perl, Python, R, Ruby, Snap, SQL, TypeScript
Developer Tools: CMake, Docker, Git, Gradle, Hugo, IntelliJ IDEA, Jira, LaTeX, Unix / Linux, Markdown, VS Code
Technologies / Frameworks: Node.js, NumPy, pandas, PostgreSQL, Prisma, PyTorch, TensorFlow, React, Spring Boot

Experience

Data System Agent | *Python, JavaScript, Microsoft Power Automate, BlueZone Basic, JScript*
FedEx Corporation

Winnipeg, MB

July 2024 – Present

- Built a timecard automation pipeline for **350 employees** using **Python, JavaScript, Perl** and **BlueZone Basic**, cutting processing time by **66.7%** and saving **14 hours/week**
- Created an end-to-end **Microsoft Power Automate** workflow for Outlook-to-Excel intake, validation, sorting and notifications, improving accuracy across **20+ metrics** and reducing manual effort by **60%**
- Processed and digitized **1000+ documents daily** across **VISA, COSMOS, GENESIS** and **FAMIS**, handling accurate data entry, batching, imaging, filing, reporting support and timely collection of operational payments

Volunteer Software Developer | *HTML / CSS, Javascript, Prisma, Node.js, PostgreSQL, Jest*
UManitoba Computer Science Students' Association

Winnipeg, MB

Sept 2024 – Apr 2025

- Engineered a sophisticated student-mentor matching system using **Prisma ORM** and **PostgreSQL**, implementing structured profile intake, eligibility rules and optimizing academic support by efficiently pairing struggling students with appropriate mentors
- Implemented comprehensive unit testing suite with **Jest**, ensuring robust data integrity and accurate instantiation in the PostgreSQL database via Prisma ORM, significantly enhancing system reliability and performance

Projects

Viklyst - Quant Backtesting + ML / AI 🚩 | *Kotlin, Spring Boot, Docker, Python, scikit-learn, PostgreSQL*

- Built a quantitative backtesting platform in **Kotlin** and **Spring Boot** with REST APIs for **instrument management, OHLCV ingestion** and **strategy backtests**, returning typed DTOs and **equity curves** across tickers and date ranges
- Developed **buy-and-hold, next-day momentum**, and **ML-based** trading workflows using **Python, pandas** and **scikit-learn**, with time-series cross-validation, feature generation, joblib/JSON artifact tracking, **FastAPI** predictions, **warmup-day thresholds** and an **AI narrative layer** with fallback safeguards for short histories, feature drift and service failures

MyTunes 🚩 | *Java / JavaFX, SQLite, Gradle, JUnit, Hugo*

- Built an **offline-first** desktop music manager in **Java/JavaFX** with account-based libraries, supporting search, playlists, tagging, ratings, login and **multi-field querying** through a **SQLite** persistence layer in an **n-tier architecture**
- Automated builds with **Gradle**, authored **152 JUnit** regression tests with a **100% pass rate**, configured headless acceptance/system/UI tests and published a **Hugo** documentation site covering setup, architecture, and design decisions

Leadership

The Manitoba Alliance of Post-Secondary Students (MAPSS), University of Manitoba
Committee Member

Winnipeg, MB

July 2022 – Present

- Advocated for **72,000+ students** via a high-profile rally on international student health-care policy

Science Student Association (SSA), University of Manitoba

Winnipeg, MB

Elected International Student Representative

May 2023 – Apr 2024

- Represented **6,000+ international science students** by surveying concerns, organizing outings (Beach Volleyball, Activate), arranging grocery gift-card giveaways and maintaining regular communications to boost engagement