

# KIANA MOHAMMADI

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## Education

**University of Waterloo**

*Bachelor of Software Engineering*

**2025 – Present (Expected 2030)**

*Waterloo, Ontario*

## Technical Skills

**Languages:** Python, SQL, TypeScript, JavaScript, Java, C/C++

**Frameworks & Libraries:** React, Next.js, FastAPI, pandas, NumPy, Matplotlib, PyTorch

**Databases & Platforms:** PostgreSQL, Supabase

**Data & ML:** Time-Series Forecasting, Feature Engineering, Model Evaluation (MAE/RMSE)

**Data Visualization & BI:** Tableau, Power BI, Plotly

## Projects

**Market Return Analyzer** | *Python, Pandas, NumPy, Time-Series Analysis*

**January 2026 – Present**

- Built a Python-based market return analysis tool to compute daily returns, volatility, and return distributions from historical price data, enabling data-driven insights into market risk and behavior.

**Weather Forecasting** | *Python, Pandas, NumPy, PyTorch, Time-Series Forecasting*

**December 2025**

- Built an end-to-end pipeline using public hourly weather data (Open-Meteo) to predict next-day temperature with sliding-window features and time-based splits.
- Trained and evaluated LSTM/1D-CNN models against naive baselines using MAE/RMSE and prediction-vs-actual plots for error analysis.

**Momentum** | *Python, FastAPI, PostgreSQL, Next.js (TypeScript)*

**September 2025 – Present**

- Built a full-stack application with a FastAPI backend, implementing authentication, protected routes, and RESTful APIs to manage users, workouts, sessions, and exercises.
- Designed relational database schemas and integrated SQLAlchemy ORM for persistence, migrations, and query logic, ensuring consistent data integrity across core application workflows.

## Experience

**Pro Shop Associate & Beverage Cart Attendant**

**June 2025 – September 2025**

*Bathurst Glen Golf Course*

*Richmond Hill, ON*

- Supported daily golf course operations by coordinating tee-time scheduling, processing memberships and on-course sales through POS/booking systems, managing inventory, and providing customer-facing assistance.

## Leadership / Extracurricular

**National Bank Open - Rogers Cup**

**2023 – Present**

*Promotions Committee Lead*

*Toronto, ON*

- Managed volunteer crews during live matches, translating directives from operations heads into actionable plans. Briefed teams on roles and ensured sponsor activations ran smoothly without disrupting event flow.
- Supervised on-court operations during matches, identified issues in real-time, and resolved them under broadcast deadlines. Communicated between supervisors and volunteer teams to maintain event timing and crowd management.

**Relay For Life - Cardinal Carter Catholic High School**

**2024 – 2025**

*Vice President & Finance Lead*

*Aurora, ON*

- Led fundraising strategy by identifying partnership opportunities and securing in-kind contributions from Popeyes, Coppa's, and No Frills. Contributed to raising \$55,000 for the Canadian Cancer Society.
- Coordinated the full Relay Day program, including activities, volunteer scheduling, and staff collaboration. Led school assemblies and secured local media coverage to promote the event.