

Qadeer Khan

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EDUCATION

Ontario Tech University

Oshawa, ON

Bachelor of Science (Honours) in Computer Science

Expected Graduation, June 2028

Related Coursework: Statistics and Probability, Scientific Data Analysis, Data Structures, Computational Science, Linear Algebra

EXPERIENCE

Software Engineer Intern

May 2026 - July 2026

Riipen Level UP

Remote

- Engineered an end-to-end AI content pipeline processing 13 live news sources and 8 FRED economic data series daily, reducing database round trips by **99%** by replacing per-row INSERTs with bulk `execute_values` operations across the full scraper layer
- Designed and deployed a **3-agent CrewAI system** using OpenAI that automatically compiles weekly economic newsletters, scanning, analyzing, and publishing bilingual drafts every Friday with **zero manual intervention**
- Developed a repeatable **performance measurement tool** scoring article quality, translation glossary adherence, and workflow reliability from live production logs, providing a quantifiable baseline for ongoing optimization

PROJECTS

Movie Recommendation System | *Python, Flask, Pandas, React*

Oct 2025

- Developed Backend API using **Flask** to process and filter movie data from a dataset which featuring **9000+** movies, TV shows, and documentaries
- Implemented filtering logic with **Pandas** for multi-dimensional queries across genre, language, rating, release date, and mature content

NFL Game Predictor | *Python, Scikit-learn, Pandas, NumPy*

Jan 2026 – Feb 2026

- Developed an **NFL game outcome prediction model** that achieved **76.9% winner prediction accuracy** across 13 playoff games, by training on **46,000+ play-by-play records** with **16 engineered features** spanning offensive EPA, defensive efficiency, and turnover metrics
- Built a **score prediction system** that estimated final game scores within **5 points 50% of the time** and within **10 points 77% of the time**, by implementing dual **Random Forest Regressors** trained on aggregated team-level statistics from **272 regular season games**
- Correctly predicted the **Super Bowl LX winner** and both **Conference Championship outcomes (3/3)**, using season-long performance metrics to evaluate matchup strength

ShipIt | *Next.js, TypeScript, React, MongoDB, REST APIs, Tailwind CSS*

Feb 2026

- Designed an **agentic AI system** using **Gemini 2.0 Flash** with **function-calling** that autonomously orchestrates 5–12 targeted web searches per query, dynamically adapting its **data collection strategy** based on domain classification of the input
- Optimized pipeline throughput by **approximately 40%** by mapping the **dependency graph** across 8–15 model calls and parallelizing independent inference stages while sequencing dependent ones
- Built a **multi-stage inference pipeline** that processes unstructured web data into **130+ structured fields** using **JSON-mode prompting**, with programmatic validation layers enforcing logical constraints
- Engineered an **autonomous research agent** that adapts its search strategy per idea by leveraging Gemini's **function-calling** to orchestrate targeted API queries across competitors, market trends, regulations, and user sentiment

TECHNICAL SKILLS

Languages: Python, Java, C++

Libraries & Frameworks: : Pandas, NumPy, Scikit-learn, Seaborn, Jupyter Notebook, SQL

Developer Tools: Git, GitHub, VS Code, NetBeans, IntelliJ IDEA, Claude, Claude Code,