Caitlin Chee-Kirkpatrick

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EXPERIENCE

Quanser Consulting Inc. — Markham, ON
Business Intelligence Analyst — *Aug 2023 – Present*

- Designed and shipped executive **Power BI** dashboards for sales/operations; improved alignment and performance tracking.
- Automated workflows with **Power Automate** and **JavaScript**, reducing manual entry by **30%** and increasing data accuracy.
- Built **Python** (Requests/BeautifulSoup) scrapers to ingest external datasets for competitive and market analysis.

HIC Global Solutions — Vaughan, ON
Salesforce Developer — *Mar 2023 – Sep 2023*

- Delivered features across two orgs (design, build, integration, testing, deployment). Implemented logic in **Apex**/**SOQL** and custom objects.
- Led stakeholder demos and documentation to align technical solutions with business needs.

Agency for Science, Technology and Research (A*STAR) — Singapore
Research Intern — *Jan 2022 – Aug 2022*

- Analyzed hydrogel datasets using **Python** (Pandas/NumPy); presented weekly research insights to senior scientists.

PROJECTS

- **Valorant Win-Rate & Agent-Comp Predictor (Python, SQL, scikit-learn, SHAP, FastAPI, Docker, MLflow)**: End-to-end lifecycle: **ingested API** match/agent data into a **SQL** warehouse; built features (agent synergies, map performance, economy swings); trained/tuned **XGBoost/LogReg** with cross-validation; evaluated via **AUC, F1** and **explainability (SHAP)**; deployed a **FastAPI** prediction service, containerized with **Docker**, with run tracking in **MLflow**. https://github.com/caitlincheekirkpatrick/valorant-win-predictor.
- **Volleyball Analytics & Lineup Optimizer (Python, SQL, Power BI, OR-Tools)**: Scraped/ETL rally-level stats into **SQL**; queried for EDA; engineered features (serve-receive quality, dig efficiency, rotation effects); clustered players into archetypes; implemented a **linear programming** lineup optimizer (OR-Tools) to maximize expected point differential; published interactive **Power BI** reports (match summaries, player cards). https://github.com/caitlincheekirkpatrick/volleyball-analytics.
- **Cocktail Recommender & NLP Ingredient Graph (Python, SQL, Sentence-BERT, NetworkX, Streamlit)**: Parsed recipes into normalized **SQL** tables; built a **content-based recommender** using **Sentence-BERT** embeddings and an ingredient–cocktail graph (**NetworkX**); generated "what can I make with my bar" suggestions via SQL + graph queries; optional simulated **collaborative filtering**; packaged as a **Streamlit** app. https://github.com/caitlincheekirkpatrick/cocktail-recommender.

TECHNICAL SKILLS

- **Python**: Pandas, NumPy, scikit-learn, Matplotlib   **SQL**: modeling, queries, optimization   **ML**: classification, clustering, feature engineering, CV/tuning, **SHAP**   **MLOps**: FastAPI, **Docker**, MLflow, pytest/CI   **BI**: Power BI, Tableau   **Cloud/Platforms**: Azure, Salesforce, Git/GitHub

EDUCATION

York University — Markham, ON
BASc, Digital Technologies (Data Science Stream) — *2023 – Present*

- Award: Experiential Education Award ($4,220)

University of Toronto — Toronto, ON
BASc, Engineering Science; Business Minor; Certificate in Leadership — *2020 – 2023*

- Award: Dean's Merit Award 2020 ($2,000)