

# Aryan Kakkar

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## TECHNICAL SKILLS

**Languages:** JavaScript, Python, Java, C, HTML, CSS, SQL, TypeScript, VBA, PowerShell, R

**Developer Tools:** Visual Studio Code (VSCode), JetBrains, Git Actions, Jest, Figma, JupyterLab

**Frameworks:** React, Node.js, Next.js, Flask, Express, FastAPI, Pandas, Scikit, Tensorflow, PyTorch, Streamlit

**Certificates:** Java Object-Oriented Programming (LinkedIn Learning), Learning Java 11 (LinkedIn Learning), LEARN HTML AND CSS (Scrimba)

## EDUCATION

### Wilfrid Laurier University

Sep. 2023 – Aug. 2027

*Honours Bachelor of Science in Computer Science (Co-op), Minor in Economics*

Waterloo, ON

- Concentration in Big Data Systems

## EXPERIENCE

### Machine Learning Engineer Intern

Sep. 2025 – Dec. 2025

*Multiverse Computing*

Toronto, ON

- Engineered end-to-end time-series forecasting pipelines using XGBoost, quantile regression, and transformer-based models to predict multi-season player performance.
- Built probabilistic forecasting systems by combining Gaussian uncertainty modeling with large-scale Monte Carlo simulations to produce multi-year scenario trajectories.
- Enhanced model interpretability by applying K-Means clustering, feature importance analysis, and quantile-band visualization to segment and explain outcome paths.
- Deployed containerized ML inference services with FastAPI and integrated interactive dashboards for real-time exploration of predictions and uncertainty metrics.

### Summer Camp Counselor & BACP Supervisor

Jul. – Aug. 2023 & 2024

*City of Richmond Hill – Rouge Woods & Richmond Green Community Centers*

Richmond Hill, ON

- Managed scheduling and logistics for up to 100 participants, optimizing resource allocation and program flow.
- Managed sign-ins/out and resource scheduling across Before and After Care operations.
- Adapted planning based on participant feedback and daily trend insights.

### Customer Service Representative

Aug. 2021 – Aug. 2022

*Farm Boy Inc.*

Richmond Hill, ON

- Delivered data-driven product recommendations, resolved customer issues, and supported daily store operations.
- Managed inventory restocking and collaborated across teams to optimize layout and improve service flow.

## PROJECTS

### Personal Portfolio | React, JavaScript, HTML/CSS, GitHub, Git

- Designed and built a fully responsive personal portfolio using React and modern CSS, showcasing projects, experience, and technical skills.
- Analyzed user inputs and patterns to generate monthly summaries with automated feedback.
- Used version control and iterative testing to optimize usability and accuracy of calculations.

### Budget Planner | JavaScript, React.js, Chart.js, CSS, GitHub, Git

- Developed an interactive financial dashboard in JavaScript and React.js using Chart.js to analyze spending patterns, model savings scenarios, and forecast monthly trends.
- Analyzed user inputs and patterns to generate monthly summaries with automated feedback.
- Used version control and iterative testing to optimize usability and accuracy of calculations.

### Clicker Game | JavaScript, HTML, CSS, GitHub, Git

- Created a browser-based game with real-time interaction, scaling difficulty, and dynamic visuals.
- Utilized DOM manipulation and responsive layouts to ensure optimal experience across devices.
- Iterated features based on testing feedback to improve engagement.

## EXTRACURRICULARS

### Director of Logistics

Sep. 2025 - Present

*Laurier Cricket Club*

Waterloo, ON

- Streamlined club operations by improving workflows and coordinating with all departments.
- Supported VP Operations in ensuring smooth execution of events, matchdays, and internal processes.

### Project Developer

Sep. 2024 - Present

*Laurier Cybersecurity Club*

Waterloo, ON

- Built full-stack analytics features for a MERN platform, integrating REST APIs to display real-time data visualizations for event tracking and user metrics.
- Integrated backend APIs with front-end dashboards for real-time metrics.
- Contributed to Agile sprints, debugging, and peer code reviews in GitHub.

### Community Representative - First Year Leadership Program

Sep. 2023 – May. 2024

*House Council – Wilfrid Laurier University*

Waterloo, ON

- Coordinated events and served as liaison between students and residence leadership.
- Promoted campus-wide digital campaigns and initiatives using data-driven outreach.