

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/outs 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.