

Yash Patel

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EDUCATION

Queen's University, Kingston ON | *B.Sc. (Honours) Computer Science*, Specialization in Software Design (focus in Artificial Intelligence, Data Analytics) April 2025

SKILLS

Programming: Bash, C, C++, CSS, Git, Haskell, HTML, Java, JavaScript, MATLAB, PHP, Prolog, Python, R, SQL

Frameworks: Astro, Bootstrap, React, Flask, jQuery, Next.js, Beautiful Soup

Technologies: CUDA, MySQL, Unity, Unraid, Pandas, NumPy, Matplotlib, Power BI, .NET, Excel

EXPERIENCE

Bruce Power | *Full Stack Developer & Supplier Performance Analyst* | Tiverton, ON (May 2023 – August 2024)

- Developed and maintained a data-driven web application (PHP, JavaScript, SQL) to automate supply chain performance tracking. Improved reporting efficiency by **40%** by eliminating manual data consolidation.
- Led the project as a full-stack developer, coordinating a team and communicating with cross-functional stakeholders (including Tier-1/2 suppliers) to ensure successful monthly tracking of important metrics.
- Created automation scripts for data sorting and report generation, saving substantial time and reducing errors for the supply chain team.
- Led monthly meetings with Bruce Power's Tier-1/2 suppliers to assess and report on their safety, capacity, quality, cost, and schedule metrics, alongside discussions of budgetary impacts and time-to-completion commitments.
- Implemented forecasting models to predict key supply chain metrics, enabling proactive decision-making by the supply chain team.

HYNK Group Inc | *Computer Technician & Business Operations Associate* | Sault Ste. Marie, ON (July 2014 – September 2021)

- Streamlined data management by developing an organized database and automating data entry and check-in processes, reducing administrative workload by **~45%**.
- Assisted in planning and executing business projects and improved customer service practices, contributing to smooth overall operations.
- Managed room rentals, supervised housekeeping, and oversaw financial transactions.

Queen Elizabeth Public School | *FIRST Robotics Mentor (Volunteer)* | Sault Ste. Marie, ON (November 2016 – January 2019)

- Mentored and taught 20+ students in robotics programming and fundamentals, fostering a collaborative and inclusive team environment.
- Guided teams through iterative design and debugging processes, resulting in several competition accolades and significant growth in students' problem-solving skills.

PROJECTS

Self-Hosted Server (Personal DevOps Project) | Python, SQL, CUDA, Bash, Linux (September 2018 – Present)

- Built a self-hosted server using Linux to run a suite of Docker containers for personal cloud storage, media streaming, file organization, virtual machines (Windows, Ubuntu, macOS), and configured the server to host SQL databases.

Personal Projects | HTML, Bootstrap, CSS, Astro, Python (December 2021 – Present)

- Developed a personal portfolio website using Astro and React. Wrote various Python automation scripts leveraging machine learning and computer vision, including a feature-based image classifier, and a photo quality analyzer.

Data Analytics Projects | MATLAB (January 2022 – December 2022)

- Thoroughly reported on 10+ data analysis projects using advanced techniques (polynomial regression, neural networks, PCA/LDA, supervised ML), rigorously evaluating model performance (AUC-ROC, confusion matrices).

EXTRACURRICULAR INVOLVEMENT

Queen's University Computing Student Association | Third-Year Rep. & Scribe | Kingston, ON (April 2022 – April 2023)

- Elected to advocate for junior computing students, organizing events, and improving student outreach. Recorded minutes during bi-weekly assemblies and distributed summaries to ensure transparency and student engagement.