

Yash Patel

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EDUCATION

Queen's University | Bachelor of Computer Science (Honours), Specialization in Software Development & Focus in Artificial Intelligence, Data Analytics, Cyber Security April 2025

SKILLS

Programming Languages: Bash, C, C++, CSS, Git, Haskell, HTML, Java, JavaScript, MATLAB, PHP, Prolog, Python, R, SQL
Frameworks: Hugo, Bootstrap, React.js, Flask, jQuery, Next.js, .NET
Technologies: CUDA, Beautiful Soup, MySQL, Unity, Unraid, Pandas, Numpy, Matplotlib, PowerBi, Excel (Proficient)
Spoken: English (Native bilingual), Gujarati

EXPERIENCE

Development Student – Full Stack Developer & Supplier Performance Analyst May 2023 – August 2024
Bruce Power | Tiverton, ON

- Developed and maintained a data-intensive web application using PHP, JavaScript, and SQL to streamline the supply chain scorecard process, replacing a manual system.
- Delivered a 40% improvement in reporting efficiency, significantly improving data accuracy and team efficiency by eliminating manual data consolidation from varying sources.
- Served as both a Full-Stack Developer and project lead, driving technical solutions while demonstrating effective leadership and communication skills.
- Collaborated with Bruce Power's Tier 1 and Tier 2 suppliers, leading front-facing meetings to assess safety, capacity, quality, cost, and schedule performance. Utilized a comprehensive scoring system to track supplier metrics on a monthly basis.
- Developed process automations for the supply chain team, significantly reducing time spent on repetitive tasks such as data sorting and chart generation.
- Worked on predictive modelling techniques using machine learning to forecast important monetary values and estimate supplier performance scores.
- Developed strong interpersonal skills, fostering effective communication, collaboration, and relationship-building within diverse teams.
- Gained a comprehensive understanding of the nuclear industry's business dynamics, enhancing my ability to collaborate effectively with suppliers and tackle complex analytical problems, thereby optimizing operational efficiency and strategic decision-making.

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

- Performed data entry & constructed an organized database for ease and clarity.
- Developed numerous scripts to help automate data entry and the check-in process, reducing workload by an estimated 45%.
- Assisted in the planning and execution of business projects, contributing to successful project outcomes.
- Maintained high standards of customer service and communicated with clarity and positivity.
- Created and kept an inclusive and safe workspace for fellow employees.
- Developed motel websites for viewing by customers looking to rent a room.
- Managed room rental, housekeeping, and oversaw financial transactions.

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

- Taught the fundamentals of robotics and programming.
- Mentored and led teams of 20+ junior programmers, fostering a collaborative environment that resulted in several accolades.
- Guided teams through iterative design and debugging processes, fostering critical thinking and resilience in overcoming technical challenges.

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PROJECTS

Self-Hosted Server | *Python, SQL, CUDA, Bash, Linux*

September 2018 - Present

- Deployed a self-hosted server built on Unraid (Linux) to manage a robust suite of Docker containers, including personal cloud storage, a media streaming service, file organization and media encoding automation, and multiple virtual machines (Windows, Ubuntu, OS X). Additionally, configured the server to host game servers and databases.

GitHub Projects | *HTML, Bootstrap, CSS, HUGO Framework, Python*

December 2021 - Present

- Created a personal website with a blog system using Hugo, Bootstrap, HTML, and CSS.
- Created several python scripts which utilize machine learning to classify text and images for the naming & organization of files.
- Implemented a Python script using computer vision and machine learning algorithms to accurately detect user presence and provide ergonomic break notifications.
- Developed a photo quality assessment app utilizing computer vision (CV) and linear algebra techniques to analyze image blur and exposure levels.

Data Analytics Projects | *MATLAB*

January 2022 – December 2022

- Reported on 10 data analytics projects (linear and non-linear), such as cost prediction, implementing k-means clustering, and perceptron initialization. Investigated polynomial regression, SVM, and optimization functions.
- Implemented data analysis methods, such as PCA, LDA, dimensionality reduction, and artificial neural networks.
- Used tests to check the efficiency of analyzes, such as AUC/ROC curves and confusion matrices.

EXTRACURRICULAR INVOLVEMENT

Third-Year Representative

April 2022 – April 2023

Queen's University – School of Computing | Kingston, ON

- Academic advocate for fellow computing students in my year.
- Created and assisted in events for students in computing.
- Developed proper student outreach and communication.

Scribe

October 2021 – April 2022

Queen's University – School of Computing | COMPSA, Kingston, ON

- Maintained and collected all important information during bi-weekly general assemblies.
- Ensured meeting content was accessible by transcribing, recording, and uploading media to a secure location.