

Dhirran Pirabaharan

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EDUCATION

Carleton University | GPA: 3.78 | CGPA: 10.4/12

Sept 2021 – Apr 2026

Bachelor of Computer Science, Artificial Intelligence and Machine Learning Stream

Ottawa, ON

- **Relevant Courses:** Programming, Data Structures & Algorithms, Web Development, Systems Programming, Discrete Math, Calculus, Linear Algebra, Software Engineering, Neural Networks, Machine Learning, Artificial Intelligence

EXPERIENCE

Public Services and Procurement Canada

May 2025 – Present

Student

Ottawa, ON

- Created intuitive Power BI dashboards and Power Automate Scripts to collect and organize data for managers.
- Developed Excel sheet powered by Power Query that aggregated over 10k Work Items from Azure DevOps.

Ontario Power Generation

Sep 2023 – Aug 2024

Software Engineering Intern

Pickering, ON

- Modernized outdated MS Access applications by redeveloping them into .NET web applications, enhancing functionality.
- Implemented ASP.NET Web APIs with Entity Framework in C#, enabling efficient data retrieval and transmission.
- Managed 10+ internal SQL databases and 100s of complex views and procedures, ensuring optimal performance.

Microsys Inc

Jan 2023 – Aug 2023

Full-Stack Software Engineering Intern

Toronto, ON

- Created a **Flutter-based** attendance app and API with facial authentication, utilized by **150+ employees** at **3+ locations**.
- Developed a **Canada-Wide** Door Tag portal for **100+ FedEx managers**, managing the shipment of **over 3 million units**.
- Designed automated **Python web scripts** to send emails to **100+ customers** and efficiently update the registration schedules.

PROJECTS

Math2LaTeX: Handwritten Math Expression to LaTeX Converter | Python, PyTorch, TensorFlow, CNN, RNN

- Innovative deep learning model for OCR recognition of hand written math equations into LaTeX code
- Includes a CNN encoder to extract features and RNN decoder with an attention mechanism for sequence prediction
- Trained on the 11,000 handwritten equations from the CROHME dataset, standardized grayscale images for training

Facial Recognition Attendance System (Microsys Inc) | Flutter, Python, Flask, Azure, MySQL, ASP.NET MVC

- Engineered a touch-free employee attendance app with precise facial authentication and a dedicated API server
- Designed the API to receive live data, accurately calculating and recording hours worked, payroll, department, and overtime
- Developed a frontend in ASP.NET MVC for managers/employees to view attendance data in both table and calendar formats

FedEx Door Tag Portal (Microsys Inc) | C#, ASP .NET MVC, HTML/CSS, JavaScript, SSMS

- Developed a full-stack portal for FedEx featuring encryption, user roles, multiple search engines, and report compilation
- Enabled FedEx managers to efficiently order and receive door tags for their stations with streamlined delivery
- Implemented an activity log with automatic admin notifications, facilitating monitoring and adjustments of live orders

SKILLS & STRENGTHS

Languages: Python, Java, C#, C, C++, JavaScript, HTML, CSS, .NET/C#, Rust, Go (Golang), Groovy, Perl

Technologies: Docker, React, Flask, Django, VueJS, NodeJS, Linux, Git, GitLab, Tkinter, JavaFX, Robot, Jinja, Collectd, Redis, Jira, Swagger, AWS, Azure, NoSQL, SSMS, DevOps, Machine Learning, Kubernetes, OpenShift, CI/CD, Jenkins, Artifactory, GitHub, Db2, Oracle, Cloudant, API Gateways, REST APIs, PyTorch, SciKit Learn, Pandas

Frameworks: Agile, AWS, Azure, Flutter, ASP.NET MVC, Entity, TensorFlow, Cypress, NgRx, RxJS

Skills: Object-oriented programming, Runtime/memory optimization, Critical-thinking, Experience with distributed, Debugging, Testing, Containerized application development, Relational databases, Low-level system programming,