

# Dhirran Pirabaharan

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## EDUCATION

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### Carleton University

Expected: Apr 2026

Candidate for Bachelor of Computer Science, Artificial Intelligence and Machine Learning Stream

Ottawa, ON

- **Relevant Courses:** Software Engineering, Web Applications, AI, Machine Learning, Mobile Development, Data Algorithms

## EXPERIENCE

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### 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- Modernized outdated MS Access applications by redeveloping them into .NET web applications, enhancing functionality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
- Collaborated with managers in weekly meetings to gather user feedback and drive continuous improvements in applications
- Managed **10+ internal SQL databases** and **100s of complex views and procedures**, ensuring optimal performance
- Optimized inefficient procedures and views, reducing run times from **60+ minutes** to under **~2 minutes**

### 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

### Carleton Computer Science Society

Sep 2021 – May 2023

Back-End Developer

Ottawa, ON

- Contributed to the development of **10+ websites** for the **largest club at Carleton University**, enhancing online engagement
- Leveraged **Django** and **Python** to design and manage relational databases, ensuring data integrity and performance
- Utilized **VueJS** and **Swagger** to integrate and document **APIs**, streamlining development and improving functionality

## PROJECTS

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### 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

### CCSS Survey Website | Django, Django REST, JavaScript, Swagger, VueJS

- Developed a website to collect feedback for the Carleton Computer Science Society, aimed at improving future initiatives
- Collaborated with the President and a volunteer to create APIs using Swagger and managed relational databases with Django

### Real Estate Webscraper | Python, Selenium, Scrapy

- Developed a real estate web scraper that allows investors to input a country and city to search for properties
- Extracted data from Zillow and Trulia, including addresses, prices, towns, # of bedrooms, # of bathrooms, and square footage
- Automated the extraction and organization of data into an Excel file for streamlined analysis and decision-making

## SKILLS & STRENGTHS

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**Languages:** Java, C, C++, Python, HTML/CSS, JavaScript, React, MySQL, C#

**Frameworks:** Agile, AWS, Azure, Flutter, Flask, ASP.NET MVC, Entity, Django, Swagger, VueJS, NodeJS, Selenium, Scrapy

**Tools:** VS Code, GIT, Machine Learning, AI, Power Automate, Unix/Linux, NoSQL, Power BI, Power Apps, SSMS, DevOps