

AAKASH HARENDRAN

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Education

Ontario Tech University

Sep. 2022 – April 2027

Bachelor of Science in Computer Science Honours (Co-op)

Oshawa, Ontario

Awards: 2× Dean's Honours List (Fall 2024, Winter 2025)

Relevant Coursework: Data Structures, Software Methodology, Algorithm Analysis, Data Analysis, Quality Assurance

Technical Skills

Languages/Frameworks: Python, Java, C++, C#, JavaScript, HTML/CSS, SQL, Bash, Vue.js, Kotlin, Node/Express.js

Skills & Tools: Git/GitHub, VS Code, Linux/Ubuntu, IntelliJ IDEA, Eclipse, Jupyter Notebook, Postman, Azure, REST APIs, Agile Workflow, Microsoft Office Suite (Excel, Word, PowerPoint), Adobe PDF

Experience

Ontario Tech University – Facilities

May 2025 – Present

Data and Process Analyst

North Oshawa, Ontario

- **Improved operational reporting efficiency by 40%** by designing dynamic **Power BI dashboards** for energy usage, financial data, and work order tracking, enabling faster, data-driven decisions.
- **Reduced manual data handling time by 30%** by automating data extraction and transformation workflows from **Archibus CMMS** and internal reporting systems.
- **Enhanced cross-departmental process clarity** by mapping and optimizing **5+ key workflows in Visio**, supporting better integration and streamlined facility operations.

Projects

Ontario Tech Exam Scheduler | *Vue.js, Node.js, Express.js, JavaScript, HTML, Tailwind CSS*

April – 2025

- Delivered live exam data for over **800+ courses** by building a **web scraping system** using **Puppeteer** and **Cheerio** on a **Node.js/Express.js** backend.
- Enabled one-click scheduling for users by designing **RESTful APIs** and integrating the **Google Calendar API**, resulting in over a **50% reduction in manual scheduling errors**.
- Improved data accuracy and reliability by **automating scraping, parsing, and formatting** of exam data, reducing manual input to **near zero**.
- Enhanced user experience and accessibility across devices by developing a **responsive, mobile-first interface** using **Vue.js** and **Tailwind CSS**.

Voxa AI Chrome Extension | *Python, Flask API, HTML, CSS, JavaScript*

February – 2025

- Delivered real-time translation and summarization for **17+ languages** by integrating **AI models (NLLB-200, BART-large-CNN)** into a Chrome extension.
- Improved user accessibility by designing a **non-blocking UI pop-up** that handled asynchronous API responses, ensuring **instant feedback** and fluid user experience.
- Enabled secure and efficient backend communication by deploying a **Flask server with HTTPS encryption**, served via **Nginx**, for interfacing with **resource-intensive AI models**.

Fast Food Data Analysis Project | *Python, NumPy, Pandas, Matplotlib, Seaborn*

November – 2023

- Processed and normalized a **multi-source dataset** by handling missing values, encoding categorical features, and scaling attributes using **Pandas**, enabling accurate downstream analysis.
- Uncovered insights on **pricing, calorie content, and sales trends** through efficient **numerical computation** and statistical aggregation using **NumPy**.
- Visualized correlations and business trends across fast food chains using **Seaborn** and **Matplotlib**, creating **heatmaps, bar charts, and scatter plots** to support data-driven conclusions.
- Identified most popular menu items and customer preferences via **group-by operations** and **pivot tables** in **Pandas**, generating **actionable insights** for hypothetical business strategy.

Leadership / Extracurricular

Computer Science Club

September 2020 – June 2021

Vice President

Don Mills Collegiate Institute

- Organized and led **3+ coding workshops and tech events**, boosting member engagement by **40%**, by promoting collaborative learning and managing project timelines and communication.
- Resolved **15+ classroom technical issues** by diagnosing and repairing **PC hardware/software**, enhancing daily tech availability and minimizing downtime.
- Delivered interactive presentations on **emerging CS topics**, including programming languages and tools, fostering a **curious and informed tech community** among high school peers.