

# Adam David

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## TECHNICAL SKILLS

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**Languages:** Java, C, C++, Python, JS/TS, HTML, CSS, Haskell, Prolog

**Technologies:** PyTorch, Scikit-learn, NumPy, Pandas, NextJS, React, Docker, Git, Tailwind CSS, MS Office

**Additional:** Graph Algorithms, Statistical Analysis, Self-Starter, Good Time Management, Great Team Player

## EDUCATION

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**Carleton University, School of Computer Science**

Bachelor of Honours Computer Science

Concentration in *Machine Learning and Artificial Intelligence*

Ottawa, ON

*September 2021 – Present*

**Relevant Coursework:** Design and Analysis of Algorithms, Abstract Data Types, Software Quality Assurance, Robotics, Programming Paradigms, Web Applications, Object-Oriented Software Eng, Discrete Structures I/II

## WORK EXPERIENCE

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**Web Developer Intern**

*A&A Design and Construction Inc.*

Guelph, ON

*April 2023 – September 2023*

- Designed, developed, and launched a dynamic and responsive website tailored to meet the specific needs of the company, resulting in a **30% increase in customer inquiries**.
- Collaborated closely with the company's team to gather requirements, feedback, and insights, ensuring that the website aligned with their business goals and preferences.
- Utilized **HTML**, **CSS**, and leveraged **JavaScript APIs** to create a seamless and responsive user experience across various devices and screen sizes. Employed best practices to ensure optimal website performance.

**Production Associate**

*DENSO Manufacturing Canada Inc.*

Guelph, ON

*June 2022 – September 2022*

- Examined incoming materials and compared them to documentation for accuracy and quality.
- Monitored machinery in operation to identify concerns and debug minor errors or report complex problems.
- Inspected final products to assess compliance with quality standards and established tolerances.

**Office Admin Assistant**

*A&A Design and Construction Inc.*

Guelph, ON

*November 2018 – June 2019*

- Utilized FreshBooks accounting software for accurate and efficient financial record-keeping.
- Managed invoicing, billing, and expense tracking for a multitude of construction projects.
- Worked to alleviate executive overload by handling various customer email and phone interactions. Routed calls to the appropriate personnel when needed.

## PROJECTS

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**2D Autonomous Racing Agent (GitHub)**

*Python, PyTorch, Matplotlib, NumPy, OpenCV, OpenAI Gymnasium*

*September 2023 - December 2023*

- Built a **reinforcement learning agent** to autonomously race a car on a randomized racetrack and reach the finish line as fast as possible.
- Designed and developed a reinforcement learning agent using a **Convolutional Neural Network** custom-built using **PyTorch** trained in a modified version of **OpenAI's Gymnasium** car racing environment.
- Image pre-processing, along with various modifications made to the task environment and how it trains helped to **decrease the overall training time by 25%**.