

# CONNOR A. JOHNSON

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## EDUCATION

The University of Guelph - **Bachelor of Computer Engineering**

September 2020 - April 2025

Relevant Coursework: Algorithm Design, Data Structures, Object-Oriented Programming, Operating Systems, Communication Systems, Embedded System Design, Large-Scale Software Engineering, Assembly language Programming, Real-time Robotics

## SKILLS

**Languages**

C, C++, Python, Java, JavaScript, PHP, HTML, CSS, MySQL, ARM, VHDL

**Frameworks**

Angular, React, Laravel, NgRx, RxJS, Pytest, Cypress, Playwright, Flutter

**Developer Tools/Technologies**

Git, AWS, Jira, Confluence, Microsoft Azure, Jenkins, VS Code, Figma, CVAT

**Operating Systems**

Mac, Windows, Linux/Ubuntu

## PROFESSIONAL EXPERIENCE

**Ansys**

**San Jose, CA**

Full Stack R&D Engineer Intern

May 2024 - May 2025

- Developing a web application utilizing **Angular, TypeScript and Python** to monitor advanced CAD simulations, contributing **+50 commits**, and **10 code reviews** with successful merges across **4 deployment release cycles**
- Wrote **unit, component and E2E tests**, improving test coverage by **50%**. Simulated mock environments for real-time testing using TestBed, NgRx and RxJS to **validate API data flow** and third-party visualizations like **Plotly**
- Designed and managed a **CI/CD pipeline**, optimizing automation for builds, tests, and deployments
- Developed **3 core features** including the Submit Job Dialog, LSDSO Dialog, and Monitoring Job Tab

**EasierEmails.com**

**Toronto, ON**

Co-Founder & CTO

Jan 2024 - Present

- Managing 4 developers** building a platform for dealerships to create personalized and custom email campaigns and web pages, enabling seamless car appointment booking and enhancing customer engagement and lead generation
- Clients **exceeded industry click-through rates by 20%** on email campaigns by utilizing our personalized email tools
- Enhanced operational efficiency through automated marketing and streamlined workflows, making **operations 7x faster**
- Utilized a diverse tech stack including **JavaScript, PHP, MySQL, AWS**

**P&P Optica**

**Waterloo, ON**

Software Engineer Intern

May 2023 - August 2023

- Solely developed the **core AI model testing script** for the company using **Python** that **evaluates the speed and performance of diverse models**, capturing results in **JSON** format for team-wide analysis
- Restructured an existing **tree model architecture**, verified with **Pytest**, to accommodate distinct edge cases resulting in a **5% accuracy boost** while **maintaining consistent model performance**
- Developed a script to launch **AWS EC2 instances on Windows or Linux**, streamlining direct operational functionalities within the **AWS environment** using **Python** and **Boto3**

**Virtek Vision International**

**Waterloo, ON**

Software QA Engineer Intern

January 2023 - April 2023

- Completed **+250** regression tests, verifying the integrity of **75%** of existing software features before a major release
- Enhanced the **CI/CD pipeline** by creating **unit tests** using **Python** using TestComplete
- Leveraged **CVAT, Matplotlib** and Python to reduce image screening time from **hours to minutes** for the AI team
- Reported **28 defects**, **doubling the average** number of defects identified by QA interns

## LEADERSHIP & ACCOMPLISHMENTS

**STEM Tutor at Paper Inc**

**Montreal, QC**

Tutored **500+ students** in advanced CS, mathematics, and physics across North America

January 2021 - 2023

**Nicolas Flamenco Steiner & Timothy Rose Awards and Scholarships**

**Waterloo, ON**

Honoured Recipient - "For significant and positive contributions to the life of your school and community"

June 2020