

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
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**.
- Engineered **3 core components** including real-time messaging, logging, and dynamic dialogs for simulation submissions.
- Wrote **+10 component** and **E2E tests** using **Cypress**, 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 **CI/CD pipelines** in **Github Actions**, optimizing automation for builds, tests, and deployments.

EasierEmails.com **Toronto, ON**
Co-Founder & CTO Jan 2024 – Present

- Led a team of **4 developers** to build a high-performance marketing platform trusted by dealerships across North America.
- Achieved a reach of **+2,400,000** targeted profiles, with an **85%** click-through rate and a **45%** conversion rate.
- Developed **2 professional Interactive Layout Editors** for drag-and-drop creation of personalized automotive campaign websites and emails, with AWS S3-backed state storage for thousands of clients using JavaScript, PHP, and MySQL.
- Engineered a comprehensive **analytics dashboard** to view campaign results supported by SendGrid API, an **interactive calendar** for scheduling and appointment booking, alongside a **CSV client upload interface** for bulk data ingestion.
- Clients **exceeded industry click-through rates by 20%** on email campaigns by utilizing our personalized email tools.

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** which **evaluates the speed and performance of diverse models**, capturing results in **JSON** format for team-wide analysis.
- Refactored an existing decision tree machine learning model, 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 and TestComplete scripting software.
- Leveraged **CVAT, Matplotlib** and Python to reduce image screening time from **hours to seconds** for the AI team.
- Reported **28 defects**, doubling the average number of defects identified by QA interns.

SELECTED PROJECTS

Personal Portfolio Website - React, TypeScript 🔗

Smart Desk + Full Stack Mobile App – Kotlin, C, Firebase, PSoC Bluetooth LE, Arduino, SolidWorks 🔗

- Built a posture-aware smart desk using sensors and bluetooth, paired with a mobile app for real-time ergonomics alerts.

Real-Time Home Security System - C, FreeRTOS, Microcontroller, PIR motion sensor, ArduCAM. 🔗

- Leveraged mutexes/semaphores for motion-triggered JPEG capture, and a synchronized GUI task to flash “INTRUDER”.