# PETER BAGGETTA B.ENG

(416)854-5405 ◇ peter.baggetta@gmail.com ◇ github.com/PeterBaggetta ◇ https://peterbaggetta.com/

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| **PROFILE** | As a Computer Engineering, I am able to use my knowledge and skills into assisting your business to excel in software development and web development projects. With a strong foundation in engineering principles, communication and consulting, this enables me to collaborate effectively in various work environments as I pursue my P.Eng. license, to further enhance my skill set. |

## SKILLS & CERTIFICATIONS

- 4 years – Git, GitHub & GitLab
- 4 years – HTML & CSS, C & C++
- 4 years – MATLAB & Simulink & R
- 3 years – Python, Java & JavaScript
- 3 years – Verilog, VHDL & assembly
- 3 years – NodeJS, NextJS, React & Tailwind
- 2 years – PHP, SQL & NoSQL, Spring Boot, Junit, Jira, TypeScript & Cloudflare
- 1 year – Microsoft Azure, Maven, Docker, Bitbucket, Cloudinary & SwiftUI

- AWS Solutions Architect Knowledge Badge (AWS Cloud Technologies)
- Quartus, Vivado, Cadence, & Xilinx
- Windows, Mac & Linux experience
- FreeRTOS, I2C, SPI, ARM Cortex
- TCP/IP & SNMP protocols
- FPGAs and SoC Device (ARM & x86) programming in VHDL, Verilog, MIPS/ARM assembly & C
- Keil & IAR Compiler workflow

## PROJECTS

**AES Encryption Coprocessor in CBC Mode**
- Implemented an AES co-processor on a DE1-SoC development board. The project was developed using Verilog and C code within the Quartus Prime II FPGA Software IDE.

**Data Compression in an Edge Computing Environment using an Auto-Encoder**
- Created a Python and C-based data compression auto-encoder to evaluate CPU performance and power usage in an edge computing environment, optimizing both compile and runtime processes with various compilers.

## EXPERIENCE

**JUNE 2022 – AUGUST 2022**

**Software Development Engineering Intern,** Publicis Sapient                    Toronto, Ontario
- Developed a website using Spring Boot, React, and NodeJS to host and manage advertisement campaigns, enabling efficient creation, editing, viewing to be distribution to customers.
- Utilized Bitbucket, REST, CI/CD Pipelines, Docker, Kubernetes, Microsoft Azure and MongoDB for development and deployment.
- Contributed to $1 billion in media sales, collaborating with skilled developers and maintaining partner relationships through Agile-based weekly meetings.

Accomplishments: Created a website with login credentials, restricted user access & optimizing sales.

**MAY 2020 – AUGUST 2020**

**Supply Chain Intern,** Bernstein Diet & Health Clinics                    Toronto, Ontario
- Tracked medical orders using in-house software, making timely deliveries, and providing usability suggestions.
- Supported IT by collaborating on hardware upgrades, system migrations, and validating new software, while also handling high-order volumes during peak seasons.

Accomplishments: Testing and deploying a software which increased sales during COVID.

## EDUCATION

**SEPTEMBER 2019 – APRIL 2023**

**Bachelors of Computer Engineering**, University of Guelph                    Guelph, Ontario
- Graduated with High Honours
- Dean's List, 4 consecutive semesters

## HOBBIES & INTERESTS

- Lifeguarding & Swim Instructor for 8 years
- Hockey, Soccer & Swimming since high school
- Fixing and troubleshooting computers
- Learning Italian

- Learning programming IDE shortcuts
- Playing piano for 8 years
- Tearing apart tech to see inner workings