

# PETER BAGGETTA B.ENG

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## PROFILE

As a recent Computer Engineering graduate, I am eager to put 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, React & React Native
- 2 years – PHP, SQL & NoSQL, Spring Boot, React, Junit, Jira, Figma & 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