# Kai Arsenault

463 Park Dr, Apt 17
Boston, MA 02215
(781)-307-0654

kaimarsenault@gmail.com
github.com/kai-arsenault
linkedin.com/in/kai-arsenault

## Education

**Wentworth Institute of Technology** | Boston, MA — Expected April 2021
Bachelors of Science, Computer Engineering — GPA 3.78
Minor, Computer Science — Dean's List
Member of IEEE-Eta Kappa Nu (IEEE-HKN), the honor society of IEEE

Relevant Coursework
Data structures, Network programming, Database management systems, Analog circuit design
Object oriented programming, Hardware security, Microcontrollers using C, Digital Logic

## Related Experience

**Defense and Aerospace Software Intern, Teradyne** | Boston, MA — January - May 2019
Implemented a C++ based loopback test for a fiber-optic based device.
Upadated front and back end of .NET applications (WinForms and WPF).
Wrote documentation using markdown with doxygen for .NET applications.
Worked in teams using Azure DevOps and Team Foundation Server (TFS).

**Software Engineer Intern, Nasuni** | Boston, MA — May - September 2019
Designed, implemented and tested a python tool suite that extracts and builds the lifecycle of filesystem objects on a single on-premise NAS appliance or multiple such geographically-distributed appliances.
Worked in teams using Agile project management through JIRA

## Skills

**Programming Languages:**
Python, C++, Java, C# (WPF and WinForms), C, Bash, LaTeX
**Technical Skills:**
Linux (Debian, RedHat), Git and Azure DevOps, .NET Framework, Analog and digital circuit design
Agile project management (JIRA), NuGet package management, Arduino, VMWare, Vim,
**Test Instruments:**
Oscilloscope, wave function generator, digital multimeter, waveform generator, power supply

## Academic Projects

**Triple DES Encryptor/Decryptor** | Hardware Security | Individual — October 2019
Wrote Python application that can encrypt and decrypt a message using a triple DES algorithm

**Microcontroller Communicaiton** | Microcontrollers in C | Team of 3 — April 2019
Used C to program a PIC16F87X microcontroller to read in a voltage and then transmit it to another using PIC boards and an EIA cable
Reading and writing out to microcontroller's registers to enable functionalities such as the timer ISR and to manipulate data using shift registers