

# Kai Arsenault

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## Education

**Wentworth Institute of Technology** | Boston, MA  
Bachelors of Science, Computer Engineering  
Minor, Computer Science

Expected April 2021  
GPA 3.78  
Dean's List

### Relevant Coursework

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

## Related Experience

**Software Engineer Intern, Nasuni** | Boston, MA

May - August 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  
Gave multiple team-wide presentations and demos

## Skills

### **Programming Languages:**

Python, C++, Java, HTML (5, Bootstrap), CSS | Familiar with: MATLAB, C, L<sup>A</sup>T<sub>E</sub>X

### **Technical Skills:**

Linux (Debian, RedHat), Git, VMWare, Secure shell, Vim, Analog and digital circuit design  
Agile project management (JIRA), Arduino, Microsoft office, Multisim, Quartus II, SolidWorks

### **Test Instruments:**

Oscilloscope, wave function generator, digital multimeter, waveform generator, power supply

### **Spoken Languages:**

English (native), Japanese (advanced)

## Academic Projects

**Triple DES Encryption** | Hardware Security | Individual

October 2019

Wrote Python application that can encrypt and decrypt a message using triple DES (uses ceaser cipher and rail fence cipher)

**Real Estate Application** | Computer Sceince II | Team of 4

October - December 2018

Wrote Java application with JavaFx GUI library to display properties and allow for user interation

Code storage and team collaboration via Git

**Ice Detection Video Sensor** | Intro to Engineering Design | Team of 4

February - May 2018

Programmed MATLAB code to analyze live video pixel gradient

Developed a circuit that would light LED when ice was detected

Presented project and poster Wentworth's Engineering Design Showcase