Kai Arsenault

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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

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, C | Familiar with: HTML (5, Bootstrap), CSS, JavaScript, MATLAB, C#, LaTeX
Technical Skills:
Linux (Debian, RedHat), Git, VMWare, Secure shell, Vim, Analog and digital circuit design
Agile project management (JIRA), Arduino, Microsoft office, SolidWorks
Test Instruments:
Oscilloscope, wave function generator, digital multimeter, waveform generator, power supply
Spoken Languages:
English (native), Japanese (conversational)

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