

Kevin Topper

EDUCATION

Expected Graduation: *May 2020*

University at Buffalo, The State University of New York

Bachelor of Science, Computer Science

Overall GPA: 3.896/4.000

PERSONAL PROJECTS

Showerduino – Arduino/Android Hack

UB Hacking, Fall 2018

- A hack designed to allow control of a shower's temperature via an Android app.
- Allows the user to warm up their shower upon waking up, to assure it heats up by the time they leave their bed.
- Utilizes the Arduino 101's Bluetooth Low Energy feature to connect an Android phone with a stepper motor, which provides torque to a shower cartridge to adjust temperature.
- Control of temperature is done through our developed Android app, which signals the stepper motor which way to turn.

AnaHacker– Python Application

Fall 2018

- An application developed to assist in the iMessage game "Anagrams".
- Designed to accept an input of 6 characters provided to them in-game.
- Programmed to find all permutations of input letters, and searches in Python's nltk library to determine if it's a word in the English dictionary.

NHL Entry Draft Lottery Simulator – Python Application

Summer 2018

- Implements the NHL's provided draft lottery odds to randomly select a first place, second place, and third place winner for the NHL Entry Draft.
- Integrates the NHL's public API to dynamically update leaderboard standings, and adjusts odds accordingly.
- GUI developed in Python utilizing the Tkinter library.

BAC Tracker – Android Application

UB Hacking, Fall 2017

- Estimates the user's blood alcohol content based on height, weight, and gender input.
- Implements a local database to store the user's information.
- Designed to adjust BAC over time. Users simply tap a lockscreen button to add a drink.
- Developed in Android Studio using Java.

TECHNOLOGIES

Programming Languages

- C++, Java, Python, JavaScript, MIPS

Other Technologies

- Android Studio, Git, Arduino, Adobe Photoshop, Linux

WORK EXPERIENCE

CSE Undergraduate Teaching Assistant

August 2018 - Present

- Lead recitations for two CSE courses: *Intro to Computer Science* and *How the Internet Works*.
- Execute weekly lesson plans.
- Hold weekly office hours/tutoring sessions.

NFTA Airport Landscaper

June 2018 – August 2018

- Collaborated on a team of 5 to complete various landscaping tasks assigned to us at the Buffalo International Airport.

University at Buffalo Student Assistant

November 2017 – May 2018

- Managed the front desk in Greiner Hall at the University at Buffalo.

HONORS AND ACTIVITIES

Four Year Scholarship Awards:

- Provost Scholarship (State University of New York at Buffalo)

SUNY at Buffalo ACM Chapter, Member

September 2017 – present

UB IEEE Club, Member

April 2017 – present

UB American Sign Language Club, Member

September 2017 – present