

# Kingsley Bowen

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## Education

### Tufts University

*Bachelor of Science in Computer Science*

**GPA:** 3.36

**Honors:** Deans List: Fall 2016, Fall 2017, Spring 2018

**Medford, MA**

May 2019

## Skills, APIs, and Interests

**Skills:** Advanced: C, C++, Python 3, ability to learn new programming languages

Proficient: Javascript, Node.js, Git, HTML, CSS, Intermediate Chinese, public speaking

**APIs:** Twilio, Google Maps, Scapy

**Interests:** Backend Programming, Cloud Services, Software Architecture, Mindfulness

## Experience

### Brain-Computer Interaction Research Assistant

*Tufts University Human-Computer Interaction Lab*

**Medford, MA**

May 2018-September 2018

- Developed an adaptable data filter, using regular expressions and translating an existing Java code base into Python 3, for input to machine learning software.
- Successfully distinguished periods of rest, singular tasks, and multiple tasks from implicit brain data from functional near infrared spectroscopy machine

### Web Platform Ops/Information Technology Intern

*Dealer Tire*

**Cleveland, OH**

May 2017-August 2017

- Developed an Amazon Alexa skill prototype that identified a selection of tires based on user-provided parameters. The skill then delivered an email or text message with purchasing information.
- Presented prototype to company CEO, partners, and upper IT management.
- Alexa skill written in Node.js using Alexa SDK, Twilio API, and AWS Lambda.

## Projects

### Universal Machine Emulator (C):

- Designed, implemented, and optimized a 14 instruction Universal Machine emulator.

### Image Compressor/Decompressor (C):

- Designed and implemented a digital image compressor and decompressor using bit manipulation.

### Network Packet Sniffer (Python):

- Using Scapy module, implemented software that examined network information (PCAP files) that alerts users of malicious attacks (covers NULL, FIN, XMAS Scans, unencrypted username and passwords sent over the network, nikto scan, and shellshock vulnerability).

### NotUber (Javascript, Google Maps API, HTML, CSS):

- Implemented web application prototype that paired drivers with passengers, and updated their location on a map. Used Google Maps API for graphical user interface.

## Leadership

### Tufts University

*Captain Men's Swimming and Diving Team*

**Medford, MA**

April 2018-April 2019

- Captain of 10<sup>th</sup> ranked team in DIII NCAA, ~20 hour/week commitment
- Voted to captainship by 40+ peers, primary focus on developing mutual understanding of team excellence.
- Most NCAA All-American Awards in Tufts University Swimming history (20)
- 2018 Most Valuable Swimmer Award Recipient

### Boy Scouts of America

*Eagle Scout*

**Cleveland, OH**

September 2007-Present

- Directed 20 volunteers throughout 161 total hours of designing, fund raising, and constructing a forest staircase to school's fish hatchery.

## Additional Experience

- Python programming tutor (Spring 2019)
- Lead guitar player of the Kinder Bueno Band (Spring 2019)
- Tufts University Ethics Bowl Debate finalist (Spring 2015)
- Tufts University private swim lesson instructor (Fall 2015-Spring 2019)
- Tufts University Third Day Gospel Choir member (Spring 2017, Fall 2018, Spring 2019)
- Tufts University club water polo (Fall 2019)

## Websites

- Personal Page: [Kingsleydb.github.io](https://Kingsleydb.github.io)
- LinkedIn: <https://www.linkedin.com/in/kingsleybowen/>
- Github: <https://github.com/Kingsleydb>