

Andrew Crofts

(631) 629-9127 ♦ andrew.crofts040@gmail.com ♦ <https://github.com/acrofts040>

EDUCATION

Tufts University, Medford, MA

Bachelor of Science in Computer Science, Expected Graduation: May 2022

Relevant Courses: Data Structures, Cybersecurity, Algorithms, Machine Learning, Web Engineering

SKILLS

Software/Tools: Node.js, Github, REST API, Heroku, PostgreSQL, MongoDB, Express.js, Google Cloud, ScikitLearn, MATLAB, Linux, Kali Linux, Selenium, Flask, Wireshark, JohnTheRipper

Programming Languages: JavaScript, C++, Python, C, HTML, CSS, Smalltalk, Standard ML, R

Foreign Language: Proficient in Italian

EXPERIENCE

Code For Good, Tufts University Medford, MA

Developer, National Motor Freight Traffic Association, June - August 2020

- Worked with a team to design an open source Python wrapper for the National Motor Freight Traffic Association's Bouncer API, adding functionality to the firewall to dynamically respond to threats
- Coordinated with 3 other team members to meet deadlines for demos

Wendy's, East Northport, NY

Crew Member, June - August 2018, June - August 2019

- Addressed urgent issues quickly and independently, ensuring customer well being while maintaining service efficiency
 - Trained new team members when manager was unavailable
-

PROJECTS

NotUber: June 2021, present

- Programmed a rudimentary Uber interface with driver search capabilities
- Utilized Google Cloud Services to interpret and visualize maps data
- Created a Heroku backend using Node.js and MongoDB to store data

Tufts EnTIRE Database: September 2021, present

- Worked with a team of 3 others to create a differentially private secure database for university researchers
- Optimized the database to store biophysical and audio transcript data
- Utilized AWS services such as AWS Lambda and RDS-3

SmallTalk Natural Number and Integer Type System

- Built a simple type system using smalltalk
 - Circumvented case analysis through method dispatch
-

EXTRACURRICULAR ACTIVITIES

JumboSEC, Medford, MA

Club Member, October 2019 - Present

- Analyze hypothetical security breaches and explore the political and technological ramifications, as well as the processes used to cause the breach
- Discuss current events and brainstorm effective methods to address breaches

Theta Chi, Epsilon Theta Chapter, Medford MA

Chapter Secretary, November 2020-Present

- Organize and maintain fraternity documentation and membership
- Regulate calendar and help to schedule events such as community service and civic engagement

HackRPI

Judge, November 2020

- Judged projects submitted by RPI computer science students at their 2020 hackathon