

# Andrew Crofts

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## 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

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## 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, Java, HTML, CSS, SQL, R, Smalltalk, Standard ML

Foreign Language: Proficient in Italian

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## 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
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## 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

**NLP Sentiment Classifier**

- Created a classifier to determine whether a given online review is positive or negative
  - Utilized ScikitLearn and Bag of Words method to train model
  - Optimized model to classify with 80% accuracy
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## 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