





JOSHUA TOWNER

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 744 Columbus Ave, Apt. 410A
Boston MA 02120

PLs and Software

Proficient

 Java  Python 

 Git  Linux 

 NumPy  SciPy 

Comfortable

 SQL  JS  React 
 HTML & CSS  C# 

 Android  K8s  Django 

Familiar

 Go  C++ 
 Kotlin  Scala 

Interests

 Video Games (Strategy) 

 Charity Biking 

 Star Wars 

 Machine Learning 

 Artificial Intelligence 



WORK EXPERIENCE

Backend/ML Software Co-op    Jul 2019 - Present
Mercari US

- Aided in the construction of Python machine learning recommender systems for the Mercari web and mobile interfaces, which has over 25 million users.
- Reorganized the Python recommender microservices and coordinated their interaction within Docker and Kubernetes along with a Go based routing API.

Part-time Software Engineer   Oct 2018 - Jun 2019
Harrow Search

- Developed web scraping application for social media profiles
- Integrated Django and Python backend with a Node.js and React frontend

Undergraduate Research Assistant  May 2019 - Oct 2019
Northeastern Venkatachalam Lab

- Created machine learning models to detect nematode neurons from three-dimensional microscope scans.

Computer Technician & Project Leader   Jun 2017 - Present
Northeastern Venkatachalam Lab

- Created machine learning models to detect nematode neurons from three-dimensional microscope scans.

Algorithms Teaching Assistant Jan 2020 - Present
Northeastern University

EDUCATION

Northeastern University: GPA 3.94/4.00 Started 2017
Candidate for a Bachelor of Science in CS/Physics and Math May 2021
Candidate for a Master of Science in Computer Science May 2022

Relevant Courses:  Applied Analysis  Linear Algebra 
 Machine Learning  Optimization and Complexity  Object Oriented Design

ACTIVITIES AND PROJECTS

Webmaster, Society of Physics Students May 2018 - Present

Husky Competitive Programming Club   Sep 2018 - Present

Essay Grammar Analysis Tool 