





JOSHUA TOWNER

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PLs and Software

Proficient

 Java  Python  Dart

 Git  Linux  Docker

 NumPy  SciPy  GCP

Comfortable


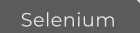
 SQL  JS  React  LaTeX

 HTML & CSS  C#  Mathematica

 Android  K8s  Django  AWS

Familiar

 Go  C++  MATLAB

 Kotlin  Selenium  Node

 Bash  Scala

Interests

 Video Games (Strategy)  Skiing

 Charity Biking  The Office

 Star Wars  Marvel

 Machine Learning  Optimization

 Artificial Intelligence  Algorithms

 Quantum Computing

WORK EXPERIENCE

Backend/ML Software Co-op   
Mercari US

Jul 2019 - Present

Spearheaded redesign of recommender systems reducing resource usage by 92%, adding online capabilities, and improving recommendations serving 25 million users.

Streamlined the entire recommender deployment from CI to client integration.

Part-time Software Engineer  
Harrow Search

Oct 2018 - Jun 2019

Designed and developed new service from the ground up to scrape and extract social media profiles using Selenium and then store, analyze, and view the data.

Undergraduate Research Assistant 
Northeastern Venkatachalam Lab

May 2019 - Oct 2019

Formulated and trained a machine learning model for identifying nematode neurons from three-dimensional microscope scans.

Computer Technician & Project Leader  
Northeastern ResNet

Jun 2017 - Present

Initiated and oversaw development of an Android application and REST/SQL backend used to survey 10,000+ ethernet ports saving hundreds of person-hours.

Algorithms Teaching Assistant
Northeastern University

Jan 2020 - Present

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

Algorithms

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

