

Joshua Towner

<https://joshua.towner.xyz>

josh@towner.xyz • 781-361-9585

Local: 744 Columbus Ave, Apt. 410A, Boston, MA

Permanent: 186 Country Club Way, Kingston, MA

EDUCATION

Northeastern University, Boston, MA

2017 – Present

Khoury College of Computer and Information Sciences

GPA: 3.94/4.00

Candidate for a Bachelor of Science in Computer Science/Physics and Math

May 2021

Candidate for a Master of Science in Computer Science (PlusOne)

May 2022

Relevant Courses:

Object Oriented Design	Algorithms	Artificial Intelligence
Applied Analysis	Linear Algebra	Optimization and Complexity
Quantum Mechanics	Machine Learning	Theory of Computation

COMPUTER KNOWLEDGE

Languages: *Proficient:* Java, Python, SQL, JS, HTML, CSS, Dart, \LaTeX
Familiar with: Sass, C++, C, C#, Octave, Bash, VB, Go

Software/APIs: *Proficient:* Linux/Win/macOS, Android, Git, Docker, NumPy, SciPy
Familiar with: AWS, GCP, Gitlab/Github/Circle CI, Kubernetes

ACTIVITIES AND PROJECTS

Husky Competitive Programming Club, Member

Sep 2018 – Present

- Programmed competitively in Java and C++ for the Husky Competitive Coding club

Independent Projects

- Implemented a grammar analysis tool in Java using Natural Language Processing

WORK EXPERIENCE

Mercari, Boston, MA

Jul 2019 – Present

Backend/ML Software Developer

- 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.

Northeastern University Venkatachalam Lab, Boston, MA

May 2019 – Oct 2019

Undergraduate Research Assistant

- Created machine learning models to detect nematode neurons from three-dimensional microscope scans.
- Utilized Python, specifically SciPy and Keras, to create and boost the neuron detection model.

Harrow Search, Boston, MA

Oct 2018 – Jun 2019

Software Developer

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

Northeastern University ResNet Resource Center, Boston, MA

Jun 2017 – Present

Computer Technician & Development Lead

- Directed and contributed to development of an Android app and REST API in Java to aid students in monitoring Ethernet port status for 10,000+ ports

INTERESTS

Video Games (any Paradox game, Elite) • Skiing • Charity Biking • The Office, Star Wars, Marvel
Machine Learning • Artificial Intelligence • Algorithms • Optimization • Quantum Mechanics