Joshua Towner

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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

Machine Learning

Applied Analysis

Linear Algebra

Optimization and Complexity

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 _____

Society of Physics Students, Webmaster

May 2018 – Present

• Created a Jekyll website as the Webmaster for the Society of Physics Students club

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

- ullet 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