Joshua Towner

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Local: 10-20 Leon Street, #6221, Boston, MA Permanent: 186 Country Club Way, Kingston, MA

EDUCATION ____

Northeastern University, Boston, MA

2017 - Present

Khoury College of Computer and Information Sciences

GPA: 3.93/4.00

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

Sacred Heart High School, Kingston, MA

2013 - 2017

Computer Knowledge _

Java, Python, HTML, CSS, JS, Dart, LATEX Languages: Proficient:

Familiar with: SQL, PHP, Sass, C++, C, C#, Octave, Erlang, Bash, VB

Software/APIs: *Proficient*: Linux/Windows/macOS, Jekyll, Android Studio, MS Office, Git

Familiar with: Kubernetes, Docker, Node.js

Certifications: CompTIA A+, Apple Certified Mac Technician, Dell Hardware Certified Technician

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
- Created an automated scheduling tool in C++ using Linear and Constraint Programming

Work Experience _____

Mercari, Boston, MA

Jul 2019 - Present

Backend 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 – Present

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

- Serviced over 500 computers as a senior data and hardware technician for a technical support center serving over 20,000 students
- 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
- Supervised university IT repair center and managed office Linux and Windows servers

Loomis Sayles & Company, Boston, MA

Jun 2015 – Aug 2015

Server Architecture Intern

- Coordinated with team to develop a smart news agent in Erlang and Riak
- Created an HTML/CSS/Java frontend for customers to subscribe themselves to specific types of news

INTERESTS

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