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

Languages:
- *Proficient*: Java, Python, HTML, CSS, JS, Dart, LaTeX
- *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 2018 – 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

- 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 Sayes & 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