

Joshua Towner

<https://joshua.towner.xyz>
towner.j@husky.neu.edu • 781-361-9585

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

Permanent: 22 Inkberry Ln, Plymouth 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 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
Independent Projects
• Implemented a grammar analysis tool in Java using Natural Language Processing

WORK EXPERIENCE

Mercari, Boston, MA Jul 2019 – Dec 2019
Backend/ML Software Developer
• Spearheaded redesign of Python and Java 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.
Northeastern University Venkatachalam Lab, Boston, MA May 2019 – Oct 2019
Undergraduate Research Assistant
• Formulated and trained a machine learning model for identifying neurons from three-dimensional 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
• 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.
Northeastern University ResNet Resource Center, Boston, MA Jun 2017 – Present
Computer Technician & Development Lead
• Initiated and oversaw development of an Android application and REST/SQL backend used to survey 10,000+ ethernet ports saving hundreds of person-hours.
Northeastern Khoury College, Boston, MA Jan 2020 – Present
Algorithms TA

INTERESTS

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