

https://joshua.towner.xyz
josh@towner.xyz • 781-361-9585

EDUCATION

2017–Present

GPA: 3.93/4.00

May 2021

May 2022

<i>Relevant Courses:</i> Object Oriented Design	Algorithms	Artificial Intelligence
Applied Analysis	Linear Algebra	Optimization and Complexity
Quantum Mechanics	Machine Learning	Theory of Computation

Languages: *Proficient:* Java, Python, HTML, CSS, JS, Dart, L^AT_EX
 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

- 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

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.

May 2019–Present

- 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.

Oct 2018–Jun 2019

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

Jun 2017–Present

- 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

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