Joshua Towner

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22 Inkberry Ln, Plymouth MA

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EDUCATION

Northeastern University, Boston, MA — Sep 2017 – May 2021
Bachelor of Science in Computer Science/Physics and Math — **GPA:** 3.96/4.00

Relevant Courses:

Object Oriented Design	Algorithms	Machine Learning
Applied Analysis	Linear Algebra	Optimization and Complexity

COMPUTER KNOWLEDGE

Languages:
- *Proficient*: Java, Python, SQL, JS, TS, HTML, CSS, React, LaTeX
- *Familiar with*: Sass, C++, C, C#, Octave, Mathematica, Bash, VB, Go

Software/APIs:
- *Proficient*: Linux, CI, Android, Git, Docker, NumPy, SciPy
- *Familiar with*: AWS, GCP, Gitlab/Github/Circle CI, K8s

WORK EXPERIENCE

Anna, Remote — Sep 2019 – May 2021
Lead Software Engineer
- Architected and developed a smart vending machine system, including real-time approvals of orders, pre-ordering, and serial communication with the machine, including deployment onto AWS and scalability.
- Managed the entire engineering team, efficiently planning out work and new features.

Intuit, Boston, MA — Jun 2020 – Dec 2020
Software Engineering Co-op
- Developed and released part of the the Quickbooks contractor payment system. This product already hosts 30,000+ contractors and has moved 60+ million dollars.
- Managed features in Quickbooks Payroll throughout the entire stack, and reliably fixed production issues.

Mercari, Boston, MA — Jul 2019 – Dec 2019
Backend/ML Software Co-op
- Spearheaded redesign of Python and Java recommender systems reducing resource usage by 92%, adding online capabilities, and improving recommendations serving 25 million users.

Northeastern University Venkatachalam Lab, Boston, MA — May 2019 – Oct 2019
Undergraduate Research Assistant
- Utilized Python, specifically SciPy and Keras, to create and boost a nematode neuron detection model.

Harrow Search, Boston, MA — Oct 2018 – Jun 2019
Software Developer
- Developed Selenium service to scrape websites and then store and analyze scraped data in Django.

Northeastern Khoury College, Boston, MA — Jan 2020 – Present
Algorithms TA

ACTIVITIES AND PROJECTS

Society of Physics Students, Webmaster — May 2018 – May 2020
Husky Competitive Programming Club, Member — Sep 2018 – Apr 2020
Independent Projects
- Implemented a grammar analysis tool in Java using Natural Language Processing

INTERESTS

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