Joshua Towner

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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

Quantum Mechanics

Applied Analysis Optimization and Complexity

Activities: Society of Physics Students Webmaster

Husky Competitive Programming Club

Computer Knowledge

Languages: Proficient: Java, Python, SQL, JS, TS, HTML, CSS, React, LATEX

Familiar with: Go, C#, C++, C, Mathematica, Bash, VB, Sass, Octave

Software/APIs: Proficient: Linux, Profiling, CI, Android, Git, Docker, NumPy, SciPy, AWS

Familiar with: GCP, Gitlab/Github/Circle CI, K8s

Work Experience __

Amazon Web Services, Boston, MA

Jul 2021 - Present

Software Development Engineer II

- Architected, coordinated, developed, and deployed key features of a new hybrid backup service, including data upload, error reporting, and a proprietary incremental diff solution, all at AWS Scale.
- Improved team processes, including release and security management. Led sessions regarding the service and onboarding. Mentored new team members, including an intern that completed their project on time.

Anna, Remote

Sep 2019 - May 2021

Lead Software Engineer

- Architected and developed a smart vending machine system, including real-time approvals of orders, preordering, 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 full stack features in the Quickbooks contractor payment system, which helped host 30,000+ contractors and move 60+ million dollars.

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

Interests

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