

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, Protobuf, Gitlab/Github/Circle CI, K8s, GraphQL

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, 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 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