Joshua Towner

https://joshua.towner.xyz

josh@towner.xyz

5648 Bay Street #526, Emeryville, CA

+1 781 361 9585

EDUCATION

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

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
Software Development Engineer II — Dec 2022 – Present
Software Development Engineer I — Jul 2021 – Dec 2022

- Led critical components of a new hybrid backup service, including the core data path, private API connectivity, and a proprietary incremental diff solution, all at AWS scale. Onboarded team members to projects, orchestrated devlopment work, and consistently delivered features ahead of schedule.
- Advocated for, designed, and delivered projects that resolved customer errors and overhauled error monitoring, resulting in a a 70% drop in job failures and early identification of a critical production bug.
- Authored team standards for key processes, including release management, operational reviews, and security testing. Mentored new team members, including a successful intern project.

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 – Apr 2020
Algorithms TA

INTERESTS

Skiing • Biking • The Office, Star Wars, Marvel • Video Games • Optimization • Machine Learning