

# Joshua Towner

<https://joshua.towner.xyz>  
josh@towner.xyz

5648 Bay Street #526, Emeryville, CA  
+1 781 361 9585

## EDUCATION

---

**Northeastern University**, Boston, MA  
Bachelor of Science in Computer Science/Physics and Math

Sep 2017 – May 2021  
**GPA:** 3.96/4.00

## COMPUTER KNOWLEDGE

---

**Languages:**     *Proficient:*     Java, Python, SQL, JS, TS, HTML, CSS, React,  $\text{\LaTeX}$   
                  *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 key 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, planned and coordinated development work, and delivered all features ahead of schedule.
- Advocated for, designed, and delivered projects that resolved customer errors and overhauled error monitoring, causing a 70% drop in job failures and early identification of a critical production bug.
- Wrote the team standard for 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