

# Joshua Ayaviri

Permanent: Glastonbury, CT | Local: Boston, MA  
(860) 841 0233 | joshuayaviri@gmail.com | [Github: ayaviri](#)

## EDUCATION

---

**Northeastern University, Khoury College**, Boston MA

May 2024

- Bachelor of Science in Computer Science
- Cumulative GPA: 3.75/4.0; *magna cum laude*

**Relevant Coursework:** Software Development, Object-Oriented Design, Algorithms and Data, Artificial Intelligence, Natural Language Processing, Computer Systems, Data Mining & Machine Learning, Computer Networks & Distributed Systems

## WORK EXPERIENCE

---

**Novy, Software Developer**

May 2024 - July 2024

- Contracted to design and build an AI-powered grant writing tool for a non-profit organization using Retrieval Augmented Generation (RAG) to increase stream's revenue
- Collaborated with client to deliver a tailored solution by demoing project milestones, collecting feedback and iteratively refining the feature set

**Mercari US, Software Engineering Co-op**

January 2023 - August 2023

- Created the first prototype machine learning recommendation system for the bundles feature using collaborative filtering
- Developed ETL pipelines using Python and Apache Airflow DAGs within a Google Cloud Composer environment to ingest 3rd party ad metadata to analyse the ROI on different ad platforms

**Skillz, Software Engineering Co-op**

January 2022 - July 2022

- Roadmapped and developed a dashboard using React, Ruby on Rails, and MySQL in an internal portal to disable rings of malicious users in bulk, cutting down the time spent per week by 90%
- Contributed to a deployment automation tool for the React Native SDK by using Github Actions, cutting down the time spent on each deployment by 85%

## PROJECTS

---

**Maestro** | An e-commerce style web application for YouTube music download (Golang, PostgreSQL, RabbitMQ)

**Inferno** | A fire response simulation for finding the optimal configuration of fire stations in a metropolitan area using k-means clustering (Leaflet.js, FastAPI, Redis, GraphHopper)

**High Phone Compute** | A distributed machine learning model finetuning framework for mobile (FastAPI, RabbitMQ, PostgreSQL, Redis, Tensorflow.js)

**The Pound** | A dog-themed Twitter-style social media platform with a timeline, notification system, and a direct messaging system (Golang, PostgreSQL, HTML, CSS, JS)

**Luna Pizza** | A landing page to the online ordering system for my father's local pizza restaurant (Next.js, Vercel)

## TECHNICAL SKILLS

---

**Languages:**

Golang, Python, Java, C, HTML, CSS, Typescript, PHP, Ruby, Bash

**Technologies:**

Databases (SQL/NoSQL), Containerization (Docker), Message Queues (RabbitMQ), Cloud Computing (GCP), Search Engines (Elasticsearch)