

Jenny Zhu

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EDUCATION

Northeastern University

September 2019 - May 2022

Master of Science in Computer Science Candidate

GPA: 3.89/4.0

Boston, MA

- **Related Coursework** -- Human Computer Interactions, Human-Center Machine Learning, Web Development, Foundations of Software Engineering, Object Oriented Programing, Algorithms, Computer Systems, Discrete Math and Data Structures

Northeastern University

September 2010 - January 2014

Bachelor of Science in Biology, Minor in Psychology

GPA: 3.45/4.0

Boston, MA

TECHNICAL KNOWLEDGE

Languages: Java, Python, Go, C++, C, Javascript, Typescript, HTML, CSS

Web Technologies and Frameworks: React, Redux, SpringBoot, Express, Angular, Node.js, Mongoose

Databases: MongoDB, MySQL • **Systems:** macOS, Linux • **VCS:** GitHub • **Cloud Providers:** Kubernetes, Openshift, Heroku, MongoDB Atlas

WORK EXPERIENCE

Red Hat

May 2021 - December 2021

Software Engineering Intern

Boston, MA

- Developed a **RESTful API** in Golang which enables to view the historical logs of different **Kubernetes pods** by leveraging the cluster logging stack of **Openshift** (which consists of ElasticSearch, FluentD, Kibana)
- Added metrics collection to API using Prometheus and contributed to integrating the API into Openshift cluster logging operator

Massachusetts General Hospital Cancer Center

June 2016 - August 2019

Clinical Research Coordinator III

Boston, MA

- **Project management** of oncology clinical trials by coordinating **communication** between clinical, administrative, and research entities, **ensuring deliverables** are completed within timelines, **maintaining documentation** for board reviews, training, and trial administration
- Ensuring **quality assurance** by reviewing regulatory and trial-specific research material to confirm participating centers are conducting research within the federal and institutional guidelines

Brigham and Women's Hospital

October 2014 - August 2015

Research Assistant in the Department of Pathology

Boston, MA

- Conducted scientific research using laboratory techniques to investigate genomic variances of ovarian cancer

PROJECTS

MovieMatch

December 2020

Created a **MEAN (MongoDB, Express, Angular, Node.js)** full-stack web application to keep track of your favorite movies. Users are able to create and maintain their own profile and view other user profiles. The app is deployed on **Heroku**.

- Constructed as a **responsive single page application** that adapts to mobile or desktop resizing.
- Implemented **front end Angular**-client using **HTML, CSS, TypeScript, Bootstrap**, and applies conditional rendering of components depending on user role (administrative or standard user)
- Assembled **back end Node.js**-server using **JavaScript, Express** framework which applies **RESTful APIs**, and **sessions** to maintain user identity throughout the application

Paint

December 2020

Creating an application similar to Microsoft Paint with the added ability to paint with other users. Written in **C++** this application implements the **Simple and Fast Multimedia Library (SFML)** for graphics and **Nuklear** for graphic user interface and **TCP (Transmission Control Protocol)** for networking. Architecturally the program applies **MVC (Model-Viewer-Control design pattern)** and **Command design patterns**.