

Ethan Liu

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EDUCATION

Northeastern University

Boston, MA

Master of Science in Software Engineering Systems; GPA: 4.00/4.00

May 2024 – Present

Northeastern University

Boston, MA

Bachelor of Science in Computer Engineering, Minor in Computer Science; GPA: 3.81/4.00

Sep 2020 – May 2024

Courses: Object Oriented Design, Data Structure and Algorithms, Web Design and UX Engineering, Database Design, Cybersecurity, Data Science Engineering, Building Virtual Environments

EXPERIENCE

Hologic

May 2024 – August 2024

Software Engineer Intern

Marlborough, MA

- Solo developed a data management web app using React, Electron, and Node.js for FDA-cleared Genius Digital Diagnostics system, significantly improving developer productivity by over 100%
- Collaborated with team members to identify and resolve UI bugs for a Digital Pathology release, to enhance user experience for insurance/billing reports
- Added a devops pipeline for a SAAS educational cytology platform to improve testing on Google Cloud Platform for over 10,000 active users

Ultimate Kronos Group (UKG)

September 2023 – December 2023

Software Engineer Intern

Lowell, MA

- Contributed to Hard Reset feature for UKG Dimensions, implementing over 15 setup item categories, including getReference and hardReset methods for multi-level dependencies like Labor Categories and Generic Locations
- Achieved over 90% code coverage by maintaining comprehensive unit tests in Java using JUnit and Mockito
- Enhanced location selector performance through API testing and optimization of endpoints using Postman

Hudl

May 2023 – August 2023

Software Engineer Intern, Front-End Platform

Lincoln, NE

- Developed an internal monorepo visualization page utilizing React, Typescript, and Node.js
- Resolved 10+ UI and accessibility defects on Hudl's front-end React/React Native component libraries
- Implemented 15 Storybook stories for Hudl's Fan application, leading to a 30% increase in total coverage and serving as an example for other teams with Storybook
- Specialized in enhancing web accessibility in the migration of 20 unit tests from Enzyme to React Testing Library

Generate

September 2022 – December 2022

Build Studio Software Engineer

Boston, MA

- Contributed to Jurni, a mental health app designed to track emotional changes over time through journaling, utilizing Natural Language Processing (NLP)
- Utilized Python and the PRAW (Python Reddit API Wrapper) library to scrape 100+ posts from Reddit
- Leveraged the spaCy library to perform in-depth analysis of specific sentences, employing tokens and vectors for nuanced emotion recognition and sentiment analysis
- Implemented data visualization features using Seaborn and Matplotlib, enabling users to easily comprehend the evolution of their emotions over extended periods

PROJECTS

Personal Website: ethanliu.vercel.app (for additional information and projects)

Blog App

- Developed a dynamic web application using the MERN stack that allows users to create and edit their blog posts
- Leveraged Express and MongoDB to create a flexible server-side architecture for data storage in Amazon S3
- Integrated secure register/login functionality with authentication using JWT and bcrypt.js

TECHNICAL SKILLS

Languages: Javascript, Typescript, Java, Python, SQL, HTML/CSS

Frameworks: React, Node.js, Electron, Storybook, Next.js Jest, JUnit, JavaFX, Tailwind

Developer Tools: Git, Docker, Postman, AWS, Kubernetes, Jenkins, Webpack, Gradle, Figma, AdobeXD

Libraries: Leaflet, Chart.js, Redux, Pandas, NumPy, Matplotlib, Seaborn, spaCy