

SEUNG WOO (ANDREW) LEE

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EDUCATION

Northeastern University

Sept. 2021 - Apr. 2025

B.S. in Computer Science, Concentration in A.I, Dean's List

Boston, MA

Relevant Object-Oriented Design, Artificial Intelligence, Database Design, Algorithms

Coursework Machine Learning, Foundations of Cybersecurity, Computer Systems

TECHNICAL SKILLS

Computer Languages

Python, Java, TypeScript, JavaScript, Go, HTML/CSS

Tools & Technologies

Git, Next, React, Node, Django, Next, Express, Docker, Figma

EXPERIENCE

FemtoMetrix

June. 2023 - Aug. 2023

Software Engineer Intern

Irvine, CA

- Refactored a large, legacy PyQt codebase with **Next.js** and **TypeScript**, resulting in a **75%** reduction in codebase and **50%** faster loading and response times.
- Engineered seamless asynchronous data transfers and leveraged **Context API** with modern **React hooks** to improve **application state management** and user experience.
- Adopted **Figma** as the primary tool for design and architectural planning during the pre-production phase, which reduced front-end component duplication and accelerated the pre-production phase.

Khoury College of Computer Sciences

Sept. 2022 - Dec. 2022

Undergraduate Teaching Assistant

Boston, MA

- Prepared and hosted office hours for **700+** students in the **Discrete Mathematics** course.
- Instructed students on concepts such as **graphs**, **solving recurrences**, and **analysis techniques**.
- Received return offer for Fall 2023 semester as Lead Teaching Assistant.

PROJECTS

Vet Finder Service for Chewy (*Chewy Hackathon*)

Apr. 2023

Tools: **Next.js**, **TypeScript**, **Node**, **Express**, **Elastic Search**

- Developed web-based application for Chewy Pet Health using **Next.js** and **TypeScript**
- Implemented a filtering functionality by leveraging the **Google Maps API** for precise locations of **1000+** clinics.
- Integrated **Elastic Search** with **Express.js** back-end to develop APIs for front-end communication.
- Place **3rd** place in a competitive challenge, developing a complete and comprehensive application in **24 hours**.

Image Processor

Oct. 2023 - Dec. 2023

Tools: **Java**, **Swing Framework**, **JUnit**

- Built an image processor in **Java** through **Object-Oriented Design** and **MVC pattern**.
- Included **14** image modifications and loading & saving functionality to the user's local machine.
- Ensured code quality through Unit Testing with **JUnit**, verifying the functionality of each command.
- Achieved **70%** code reduction with scalable and stable design through inheritance and abstraction.