

Alexander Oh

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Education

Northeastern University | Boston, MA

M.S. in Computer Science, GPA: 4.0 / 4.0

Sept 2022 - Dec 2024 expected

Coursework: Databases, Foundations of Software Engineering, Algorithms, Web Development, Data Structures and Algorithms, Object-Oriented Design

B.S. in Mechanical Engineering, GPA: 3.828 / 4.0

Sept 2015 - Dec 2019

Technical Knowledge

Languages: JavaScript, Typescript, HTML/CSS, Python, Java, C, D, MATLAB

Technologies: React, Node, Express, Git, GitHub, MongoDB, Figma, Webflow, Solidworks

Projects

IKEA Product Finder

Sep 2023 – Jan 2024

A web application that fetches and displays stores that have specific IKEA product in stock

- Used React hooks (useEffect, useState, useCallback) to pass properties between components
- Developed the application using React, Google Maps API, and IKEA API

Music Town

Nov 2023 – Dec 2023

- Led a team of 4 developers in building a networked, 2D environment where users can listen to music with others inside of an enclosed digital space
- Created server and client applications with D language, Simple DirectMedia Layer (SDL) while practicing Agile methodology to streamline development efforts

NEU Collab

Jun 2023 – Aug 2023

A web application that allows users to find projects to collaborate on together

- Worked in a team of 3 developers to build a student collaboration platform (Mongo, Express, React, Node)
- Created RESTful API using Express to pass data to/from MongoDB database
- Implemented basic login functionality with React Redux and Express sessions to track current user state

Work Experience

Graduate Teaching Assistant | **Northeastern University** | Boston, MA

Jan 2023 - Present

- CS5004 – Object Oriented Design (Java), 1 semester
- CS5001 – Intensive Foundations of Computer Science (Python), 2 semesters
- Lead weekly lab sections, graded homework, hosted office hours and tutoring sessions for 200+ students

Mechanical Engineer | **Entegris** | San Luis Obispo, CA

Jul 2020 - May 2022

- Oversaw design and documentation of cryogenic hydrogen purifier line, coordinating with project manager, manufacturing team, electrical and software teams to deliver final product
- Sourced OEM components, created CAD models & manufacturing drawings for entire system

Test Engineering Co-op | **NASA Jet Propulsion Laboratory** | Pasadena, CA

Jan 2019 - Jun 2019

- Designed ground support equipment for Perseverance Rover testbeds, collaborating with cross-functional engineering team – finite element analysts, CAD designers, manufacturing technicians

Consumer Product Engineering Co-op | **Bose** | Framingham, MA

Jan 2018 - Jun 2018

- Designed test fixtures and tested mechanical properties of prototype components including nitinol neckband, insert-molded acoustic mesh parts, silicone eartips

Manufacturing Engineering Co-op | **Analogic** | Peabody, MA

Jan 2017 - Jun 2017

- Designed and deployed shrink tube spool fixture that improved manufacturing area efficiency and drafted assembly documentation for main CT system power distribution unit

Hobbies, Interests, and Awards

- Music producer with 1 million+ streams on Spotify