

LISA LAM

LOOKING FOR AN INTERNSHIP · AVAILABLE: SUMMER 2021

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Education

Northeastern University

Boston, MA

CANDIDATE FOR M.S. IN COMPUTER SCIENCE - GPA: 3.5/4.0

Sept. 2019 - Present

Expected Graduation Date: Dec. 2021

Wentworth Institute of Technology

Boston, MA

B.S. IN BIOMEDICAL ENGINEERING - GPA: 3.5/4.0

Jan. 2014 - Aug 2017

Graduated Cum Laude

Technical Skills

Languages

Proficient: Java, Python **Familiar:** C/C++, CSS, HTML, JavaScript, TypeScript, R, SQL, Visual Basic

Software

Android Studio, Axure, IntelliJ, Git, MATLAB, PyCharm, SolidWorks, Visual Studio Code

Framework/Tools

Firebase, JSON, NodeJS, React, XML

Coursework

Algorithms, Data Management and Processing, Discrete Math, Data Structures, Foundations of Software Engineering, Human Computer Interaction, Mobile Application Development, Object Oriented Design, UI Development

Projects

Plagiarism Detector

Software System

NORTHEASTERN UNIVERSITY

Sept. 2020 - Dec. 2020

- Designed, implemented, tested and evaluated a plagiarism detection application using Typescript, React, and Greedy String Tiling algorithm to detect similar solutions to an assignment.
- Incorporated Agile Methodology throughout the process to develop a more efficient software application.

COVID-19 Contact Tracing App

UI Prototype

NORTHEASTERN UNIVERSITY

Sept. 2020 - Dec. 2020

- Designed, analyzed and evaluated a prototype for a human computer interaction system to track COVID-19 at Northeastern University by applying design and evaluation methods throughout the project.
- Created a prototype using Axure where students can take daily wellness checks, schedule COVID-19 tests, and receive notifications for positive cases.

Sonobyte

Android App

NORTHEASTERN UNIVERSITY

May. 2020 - Aug. 2020

- Developed a mobile application (in Java) that allows for android users to describe their daily life moments using music, emojis, camera services and location to focus on user engagement.
- Utilized Firebase Authentication for user authentication, Firebase Cloud Firestore for storing posts, and Cloud Messaging for notifications.
- Implemented using MusicBrainz API, OpenWeatherMap API, GPS, camera, and microphone sensors.

Work Experience

PerkinElmer

Hopkinton, MA

MES ENGINEER (MES = MANUFACTURING EXECUTION SYSTEM)

Sept. 2019 - Present

- Execute basic SQL statements to troubleshoot any issues within the MES system.
- Personalize the MES system to record crucial data and track data for traceability and monitoring purposes.
- Perform changes on the MES system to reflect current product process changes as well as the addition of new products to keep the system up to date with manufacturing process.

PerkinElmer

Hopkinton, MA

MANUFACTURING PROCESS ENGINEER

Sept. 2017 - Aug. 2019

- Assisted in creating a program in Visual Basic to automate solenoid valves on an in-house tool to reduce labor time.
- Led team for chip manufacturing on an NPI project to ensure manufacturability of a new microfluidic chip design for mass production.
- Utilized SolidWorks to design test fixtures and tools used to manufacture microfluidic chip prototypes.
- Identified potential cost savings and process improvement by researching and validating current and emerging automated technologies.
- Performed design of experiments (DOE) and root cause analysis to determine cause of defects and failures in microfluidic chips.
- Provided support for the cleanroom by troubleshooting any issues that impact production and train cleanroom technicians.