# Runcheng (Frank) Li

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No Sponsor needed | Available from January 2024

## EDUCATION

**Northeastern University** — Boston, Massachusetts
*Master Of Science in Computer Science* — *Sep. 2022 – Dec.2024*
**University of Rhode Island** — Kingston, Rhode Island
*Bachelor of Engineer in Mechanical Engineering* — *Sep. 2018 – May 2022*

## TECHNICAL SKILLS

**Languages:** JavaScript/Typescript, Java, Python, C, C++, HTML, CSS, SQL
**Frontend**: React, Vue, Angular.
**Backend**: Restful API, Node.js, Mongo dB
**Mechanical Engineer tool:** SolidWorks, MATLAB, Abaqus, Msc Nastran | 3D Printing
**Multimedia Production**: Davinci Resolve (Edit, Color, Fusion), Adobe PS & LR(Graphic Design)
**Content Creation**: Freelance Video Production, Photography

## WORK EXPERIENCE

**MCE Intern**
Hexagon Manufacturing Intelligence (RI) - Design engineer — Sep 2021 - May 2022

- Designed a semi hydraulic lifting table system with portability, increasing CMM(Coordinate Measuring machine) tempo auto loading efficiency by 200%, provide customer ergonomics features.
- Using SOLIDWORKS Simulation, applied machine shop CNC expertise, finalize assemble design lifting system, evaluate and provide information for product's maximum operation guidance.

**MCE Intern**
Global Bedding Solution lnc (MA) - Manufacturer engineer — Oct 2021 - Jan 2022

- Applied mechanical and basic C++, MATLAB knowledge, develop a simple program to increase spring coils dimensions consistency by setting various temperature of coil conditions.

## PROJECTS

*Collab – NEU Project Search Website (Full-Stack***)**

- Crafted a user-friendly interface using ***Figma, React, JavaScript.***
- Developed a robust backend utilizing ***MongoDB*** and designed a backend-for-frontend layer for External API content discovery and CRUD user's functionality.

*Photo – Shape Model coordinator*

- Developed a Java-based photo album animator with a customizable GUI using Model-View-Control (MVC) architecture.
- Integrated various data visualizations, featuring interactive Java Swing buttons for user-friendly interaction for various picture input.

## Research Experience

Microfluidics and Microsystem Laboratory research (URI) — April 2021 – May 2021

- SolidWorks 3D designing for an acoustic pulsatile micropump device that is used for pumping liquid into blood vessels, simulating a real pulsatile blood vessel environment by using a digital sensor to inject a specified amount of liquid.