

# Runcheng (Frank) Li

(No Sponsorship Needed)

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Available from January 2024

## EDUCATION

### Northeastern University – Khoury College of Computer Sciences

*Master Of Science in Computer Science*

Boston, Massachusetts

Sep. 2022 – Dec.2024

Relevant Coursework: Algorithms, Web-development, Object-Oriented Design, Human-Computer Interaction

### University of Rhode Island – College of Engineering

*Bachelor of Engineer in Mechanical Engineering*

Kingston, Rhode Island

Sep. 2018 – May 2022

Relevant Coursework: Thermodynamics, Heat Transfer, Fluid Mechanics, FEA, Material Mechanics, Power Plant

## TECHNICAL SKILLS

**Languages:** JavaScript, Typescript, Java, Python, C, C++, HTML, CSS, SQL, MATLAB

**Frontend:** React, Vue, Angular

**Backend:** RESTful API, Node.js, MongoDB

**Mechanical Engineer tool:** SolidWorks, Simulink, Abaqus, Msc Nastran, 3D Printing

**Media Production:** Commercial Video Production & Photography, Davinci Resolve, Adobe Photoshop, Lightroom, Figma

## PROFESSIONAL EXPERIENCE

### Photographer & Video Editor

May.2022 – Current

Freelance - Self Employed

- Utilized Figma for diverse graphic design projects, including developing brand iconography, and designing frameworks for websites and mobile applications, contributing to enhanced digital presence and customer engagement.
- Leveraged Adobe Lightroom and Photoshop to deliver high-quality photo editing services, tailoring visuals to meet diverse client specifications for product promotions.
- Executed comprehensive video production tasks using DaVinci Resolve, encompassing editing, color grading, and fusion, to produce content that precisely meets client expectations and enhances product appeal.

### Mechanical Engineer Intern

Sep.2021 – May.2022

Hexagon Manufacturing Intelligence (RI) - Design engineer

- Designed a semi hydraulic lifting table system with portability, resulting in a **200% enhancement** in the efficiency of auto-loading for Coordinate Measuring Machines (CMM). Added ergonomic features to the system enhancing the user experience.
- Utilized **SOLIDWORKS** Simulation and applied **CNC** expertise from machine shop operations to complete the assembly design of the lifting system. Conducted evaluations and furnished data to establish maximum operation guidance of the product.

### Mechanical Engineer Intern

Oct.2021 – Jan.2022

Global Bedding Solution Inc (MA) - Manufacturer engineer

- Applied basic **C++** programming to create a simple controller program that sets various machine operations of coil temperature to increase the consistency of spring coil dimensions.
- Managed and operated machinery for mattress products, including coiling, fabric wrapping, and compression process. Played a key role in operation instruction to faculties, product inspection, optimizing quick and safe delivery of bedding products.

## PROJECTS

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

- Crafted a user-friendly interface using **Figma**, **React**, and **JavaScript**.
- Developed a robust backend utilizing **MongoDB** and designed a backend-for-frontend layer for External **API** content discovery.
- Implemented CRUD operations and distinct permission for different users' categories. Enable user-specific database interaction such as project collection and profile edit.

*Photo – Shape Model coordinator*

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

## RESEARCH EXPERIENCE

Microfluidics and Microsystem Laboratory research (URI)

Apr.2021 – Jun.2021

- Research and investigate 3D print clear resin acoustic lab-on-a-chip device, compare with traditional polymethyl siloxane microfluidics device.
- SolidWorks 3D designing for an acoustic pulsatile micropump device. Conduct simulation of a pulsatile blood vessel environment by controlling voltage of transducer.