Runcheng (Frank) Li

(No Sponsorship Needed)

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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, Simulink, Abaqus, Msc Nastran | 3D Printing
Multimedia Production: Davinci Resolve (Edit, Color, Fusion), Adobe PS & LR(Graphic Design), Figma
Content Creation: Commercial 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 basic **C**++ knowledge, develop a simple controller program to increase spring coils dimensions consistency by setting various machine operations of coil temperature conditions.

- Managed and operated machinery for mattress products, including coiling, fabric wrapping, and compression process, contributing to efficient delivery of quality bedding products.

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.