# Bingzhen Li

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## *SUMMARY*

Seeking for Software Engineer full time position. Strong at **Python, Java JDK1.8, HTML5, JavaScript, TypeScript, HTML, CSS, Ajax, MongoDB, MySQL, Git, React, Angular, Redis, JQuery** languages and skills. Hands-on experience at algorithms, web programming, machine learning. Needs H1B sponsor.

## *EDUCATION*

➤ **Stevens Institute of Technology**                                                                08/2021-02/2023

Master of Science of Computer Science    GPA 3.6/4.0

Main courses: Web Programming, Deep Learning and Business Applications, Mobile Systems and Applications, Cloud Computing, Database Management Systems.

➤ **Cornell College**                                                                                            08/2017-05/2021

Bachelor of Science of Computer Science & Economics and Business

Main courses: Systems Software, Computer Organization, Statistical Methods, Data Visualization, Software Architecture, Algorithm/Data Structure, Computer Graphics, and CS Machine Learning.

## *PROJECTS*

➤ **Stevens Institute of Technology**

**Online Candy Shop**

- Designed and developed an engaging online Candy shop website using **React**, **React Router Dom**, **ContextAPI**, **Node.js**, and **Firebase**. This provided customers with a seamless shopping experience to browse and purchase candies online.
- Implemented advanced responsive features by utilizing **Redis** as a shopping cart, efficiently handling over a hundred thousand user demands concurrently. This optimization improved website speed by 20% and significantly reduced backend pressure by minimizing database calls.
- Deployed and maintained the backend server on **Heroku** and the frontend server on **GitHub**, ensuring smooth and reliable application performance.

**Web Programming**

- Developed a captivating full-stack web application called event-nest using **MongoDB, Express**, and **Node.js**. This empowered users to effortlessly publish and subscribe to events within a secure logged-in state.
- Optimized client loading and runtime speed by implementing **Handlebars** as a data-passing template, delivering a seamless user experience.
- Implemented secure credit card handling and payment processing using **PayPal's API**, guaranteeing the utmost transaction security for users.

## *RESEARCH EXPERIENCE*

➤ **Company's Official Website**                                                                          06/2022-08/2022

- Collaborated within an agile team to conceptualize and develop a user-friendly web console empowering administrators to effortlessly update and manage website content.
- Created an intuitive frontend content visualization page utilizing **React** and **TypeScript**. Implemented the **ContextAPI** as a global variable to efficiently control administrator permissions and access levels.
- Designed and structured **JSON** data and file data formats to seamlessly transfer website content and images from the frontend to the backend, effectively storing them in **MongoDB**.
- Deployed the web application on **Alibaba Cloud's server**, ensuring reliable performance and scalability. Configured **Nginx** as the server's proxy for enhanced security and efficient request handling.

➤ **Movie Website Project**                                                                              01/2023-03/2023

- Developed a full stack web application called Movie website using **Angular**, **NestJs**, and **Node.js**. This allowed users to publish and retrieve movie details after logging in.
- Implemented **LazyLoad** to enhance client loading and running speed.
- Utilized **NestJs** backend and **JWT token** for **authentication**. Implemented guard for front-end **authorization**.
- Leveraged **NGRX** to manage all movie states, improving development efficiency and ensuring easy state management.