

Jialin Zhen

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Education

Northeastern University, Boston, MA

September 2016 – May 2021

Bachelor of Science in Computer Science

Skills

Languages: Java, JavaScript, SQL, HTML, CSS,
Frameworks/Tools: React, Bootstrap 4, Spring Boot, Angular, Node.js, Git,
Databases: MySQL, MongoDB, Microsoft SQL server, PostgreSQL, Firebase

Experience

Software Engineer Co-op, **Manulife**, Boston, MA

July - December 2019

- Built UI dashboards with **React.js** to visualize external client's financial situation and enhance front-end components state communications via **Redux** to increase frontend development efficiency
- Designed relational database schema in **Microsoft SQL Server** and constructed **RESTful** API endpoints in **Spring Boot** for financial model dashboards
- Analyzed, debugged and refactored frontend code to improve software runtime
- Performed code reviews and peer programming under **Agile Methodology** to ensure code quality and utilized **GitLab** as source control

Projects

FoodHub

March - June 2020

- Built an application that allows user to register, upload and comment on foods they like for our Neighborhood Food Club
- Developed frontend in **Angular 6** and APIs in **Node Js** with **MongoDB** database
- Constructed token-based authentication using **Passport.js**

Movie Recommender

January - March 2020

- Designed **React.js** UI and backend **MongoDB** database entities for an movie recommendation application
- The application allows users to search, comment and rate a movie from an external OMDb API.
- Implemented the recommendation algorithm based on a **cosine similarity algorithm** in linear algebra
- The algorithm estimates user rating for particular movie based on user's rating to other movies and the similarities between the estimating movie and the rated movie.

Around Network

January - March 2020

- Designed and implemented a geo-based social network web application with **React JS**.
- Implemented features for users to create, browse, comment posts and support search nearby posts with **Google Map API**
- Implemented token-based authentication via **JWT**
- Launched a scalable web service in **Golang** to handle posts
- Used **ElasticSearch** for user to search nearby posts within a distance (e.g. 200km)
- Integrated **Google Vision API** to provide a face detection model and integrate with the Go service.

TechFo Post

June - September 2019

- Built a web application that allows users to upload and comment on computer science related post or articles
- Developed using **Spring MVC** framework with **Spring Security** for authentication
- Integrated **ElasticSearch** for article searching in application

MinoStore

September - December 2018

- Implemented a mini online platform that allows users to register, comment and rate their own uploaded product
- Developed with **React redux** frontend with **FireBase** backend and authentication