# Xi Shen

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## EDUCATION

**Northeastern University** Sep. 2021 – May. 2023 (expected)
*Master of Computer Science, GPA **4.0*** San Jose, CA

- **Coursework**: Scalable Distributed System, Algorithms, Software Engineering, Mobile App Development

## SKILLS

**Languages** : Java, JavaScript, Node.js, HTML/CSS, Golang, Python, SQL

**Frameworks** : Java EE, Spring Boot, Spring Cloud, React.js, Vue.js, Android

**Technologies** : MongoDB, MySQL, Firebase, MyBatis, RabbitMQ, Firebase Cloud Messaging, WebSocket, Nginx, Nacos, Docker, Kubernetes, Maven, Restful API, Swagger2, NFC

**Cloud Services** : GCP Kubernetes Engine, GCP Compute Engine, AWS Step Function, AWS Lambda, AWS CloudFormation, AWS DynamoDB, AWS SQS, AWS CodeBuild, AWS EventBridge, AWS CloudWatch

**Tools** : Git, Jira, Confluence

## EXPERIENCE & PROJECTS

**Notification Improvement for Alexa Hosted Skills** May. 2022 – Aug. 2022
*Software Development Engineer Intern @ Amazon* Seattle, WA

- Designed, implemented, tested and successfully deployed this feature to **Production** environment in a short **12-week** internship
- It covers **several totally different deployment workflows** of Alexa Hosted Skills
- This new feature will navigate users to AWS CloudWatch log page to easily find the errors in their code when developing the Alexa Hosted Skills. It improves the user experience for **all the Alexa Hosted Skills users** and has great internal impact as well
- It uses **Java EE** and AWS services like **AWS Step Function, AWS Lambda, AWS CloudFormation, AWS DynamoDB, AWS SQS, AWS CodeBuild, AWS EventBridge, and AWS CloudWatch**
- Completed the stretch goal which is to filter out the failed Alexa Hosted Skills deployment metrics caused by client errors to reduce false alarm

**NEU Study Room Reservation System** Jan. 2022 – May. 2022
*Class Project* San Jose, CA

- Led and collaborated within a four-person team to design and implement a **Distributed Study Room Reservation System** for both campus administers and college students
- It contains **5 Spring Boot Microservices**, which communicates with each other via **Nacos and Spring Cloud Gateway**
- It uses **Vue.js** as front-end(communicating via **Restful API**), and uses **MongoDB and MySQL** as databases

**Shoppass - Android App** Jan. 2022 – May. 2022

*Class Project* San Jose, CA

- Collaborated within a four-person team to design and implement an **Android App** for customers to discover local products and promotions
- It uses **Camera and GPS** to improve user experience
- It uses **Firebase** as database and file storage, and it uses **Firebase Cloud Messaging** to push notifications to customers

**Vaccine Tracking - Android App** Jan. 2022 – May. 2022

*Class Project* San Jose, CA

- Led and collaborated within a four-person team to design and implement an **Android App** to track vaccine packages
- It reads vaccine package information via **NFC**, and stores them on **MongoDB Atlas**
- Our team used **Scrum and Agile Process Models** to manage the development life cycle of this app

**HotYelp** Aug. 2021 – Current

*Personal Project* San Jose, CA

- Self-designed, developing and improving a website **hotyelp.com** which uses **Yelp API** to get trending businesses around the location given by user
- It uses **Spring Boot** as back-end, uses **React.js** as front-end(communicating via **Restful API**), and uses **MongoDB** as database
- It is containerized using **Docker**, and deployed on **Google Kubernetes Engine Autopilot Cluster** in **Google Cloud Platform**

**ChromeDanmu** Sept. 2021 – Current

*Personal Project* San Jose, CA

- Self-designed, developing, and improving a Chrome Extension **ChromeDanmu**, which allows users to share their comments about the same website via the format of **Danmu** in real-time
- It uses **JavaScript** and **WebSocket** to talk to a backend developed in **Golang**. It uses **MySQL** as database

**The 14th China Post-Graduate Mathematical Contest in Modeling** Sep. 2017 – Nov. 2017

*Programmer* Xi'an Jiaotong University, China

- Technically led a team of 3 and finally won **1st Prize, top 1.44% among 10454 nationwide teams**
- Designed and implemented **MATLAB** algorithm based on **Gaussian Mixture Model with GrabCut** to extract the foreground of surveillance video
- Wrote essay based on the algorithm and results