

# Siwei Guo

☎ (+1) 206-475-6663 | ✉ guo.siw@northeastern.edu | 🏠 edisonguo.tech | 📷 edisoncat | 🌐 edisonguo

## Education

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### Northeastern University

Seattle, WA

**M.S. in Information Systems | Computer Software Engineering GPA: 3.79/4.0**

Sept. 2019 - Dec. 2021

### Shanghai University of Electric Power

Shanghai, China

**B.S. in Electrical Engineering**

Sept. 2014 - Jun. 2018

## Skills

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**Programming Languages** Java · JavaScript · C/C++ · Python

**Web Development** React.JS · Node.JS(Express) · Spring Boot · HTML · CSS · GraphQL

**Cloud/Database/Tools** AWS · MongoDB/Atlas · DynamoDB · Redis · Git

## Experience

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### Boonoob - Fabulous Technology Inc.

San Francisco, CA

**Software Engineer Intern - Full Stack | Node.JS · React.JS · Redux · MongoDB**

Oct. 2020 - Dec. 2020

- Utilized Agile Software Development methodology to design and build a social network with the product team to connect people and boost the gig economy
- Debugged the REST APIs for posting, commenting and pagination, upgraded the APIs by adding sorting algorithms to optimize the performance, migrated the database to MongoDB Atlas to improve availability
- Worked with UI/UX designer to create a responsive and interactive front end with React.JS and simple animations
- Collaborated with teammates by using GitLab and Ngrok, wrote documentation for every component and API
- Boosted the development of Boonoob to raise over \$50k as start-up capital on WeFunder, gained over 300 users and generated over \$10k revenue for the users in the first 2 weeks in the beta stage

### Internet of Things Scientific Research Institute

Fujian, China

**Software Engineer Intern | Java · Spring Boot · MySQL**

Jul. 2017 - Sept. 2017

- Redesigned Tomcat web servers for 2 different smart home enterprise applications with Java and Spring Boot
- Facilitated the development of products and generated \$40k revenue for the institute with the development team

## Projects

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### Storefront | Online Shopping Platform

Seattle, WA

**Personal | Node.JS · React.JS · MongoDB Atlas · AWS · Algolia · Stripe**

Feb. 2021 - Present

- Applied Cloud Computing to build robust application, used AWS S3 for media storage, Atlas for user data and AWS EC2 for API resources to reduce dependability, improve availability and server performance
- Designed user workflow and built features, including search, cart, posting items, payment, rating, requesting returns and reviewing orders
- Implemented OAuth security flow by adding middleware for REST APIs to verify access token and refresh token so that the data and resources can be secured while the application stays stateless
- Worked with Algolia and Redis to index data of items in cloud, cache search results and valid tokens to optimize search speed and avoid unnecessary API calls to improve server performance
- Integrated Stripe payment for better transaction experience and security

### Blackboard | School Management System

Seattle, WA

**Course Project | Java · Spring Boot · AWS · DynamoDB**

Feb. 2020 - Apr. 2020

- Engineered a web server that makes it easier for students and school staffs to manage the courses
- Devised the data modelings and REST APIs, and implemented the server with Java and Spring Boot
- Mapped objects to AWS DynamoDB for better performance and scalability
- Created the front end page for users to sign up and log in to manage their courses and information
- Hosted the web application on AWS Beanstalk to make it highly available for more users