

## SKILLS

**Programming Languages:** JavaScript, Python, C#, SQL, HTML, CSS, Git

**Frameworks/Tools:** Node.js, Express, Sequelize, Socket.io, Flask, WTForms, SQLAlchemy, SQLite, PostgreSQL, React, Redux, Redux-thunk, Docker, Heroku, Unity, RESTful, Matlab

**Tech Skills:** Pair Programming, Test-Driven Development (TDD), Excel

**Languages:** Mandarin Chinese (Native), English (Fluent), Japanese (Fluent)

## PROJECTS

swEtsy | *(JavaScript, React / Redux, Python, Flask, SQLite, PostgreSQL)*

[live](#) | [github](#)

- Developed a robust functional search feature with **Flask** query filters, different React event handlers and **Regex**, to eliminate invalid inputs from both the search bar and the browser URL bar as expected.
- Introduced requirement-analyzing to quickly implement backend **RESTful API** routes with my seamless ability to extend based on frontend requirements to maintain scalability.
- Collaborated with a team of 4 software engineers to orchestrate complex debugging including fast bug-isolation, solution searching, and technical communication using **Scrum Methodologies** to increase development efficiency.

Doorskid | *(JavaScript, React / Redux, Express, Sequelize, Socket.io, SQLite, PostgreSQL)*

[live](#) | [github](#)

- Utilized **Socket.io** in both the server and client side with the built-in chat-room function and “emitting” to specific users for the live message CRUD after efficiently discovering the socket connection and the data flow.
- Boosted application durability by adding abundant and reasonable error handling and limitations with **HTML**, **React**, **Sequelize** model and migration to prohibit unexpected inputs from breaking the site.
- Engineered with the **Sequelize** queries and a new Redux dispatch logic to allow synchronous content updates on the client’s browser, while ensuring the UI was intent and bug-free using CSS and React classname selection.

Catbnb | *(JavaScript, React / Redux, Express, Sequelize, SQLite, PostgreSQL)*

[live](#) | [github](#)

- Introduced **Express.js** middleware groups to make reusable, modularized and easy-to-combine middleware functions for validation, authentication and authorization to improve the DRY/SRP of the code.
- Established unique **Redux** state key-value pairs for faster user authority check, which promised only specific users under the right conditions to access sensitive and private functions.
- Achieved the **AWS S3** image uploading with the pictures from the local machine which ensured the images were loaded at a stable time and ensured the images would be present rather than using outlink image URLs.

## EXPERIENCE

Project Manager and Manager of Technical Service & Coordination Department

*Beidou Satellite Information Service Co., Ltd*

Apr 2014 - May 2015

- Improved company workflow with engineer management logic (requirement analysis, UML models, DRY, SRP) and knowledge from system management ensuring clear cooperation and responsibility relations.
- Researched and taught the team the technical concept overview of our cooperators' companies, ensuring members had enough knowledge about cooperators and their business field before further negotiation.
- Regulated a 15M\$ project with head companies in the industry with my active listening, communication skills and multi-task management to ensure that all the paperwork was finished and submitted on time in a short interval.

## EDUCATION

AppAcademy - Javascript & Python full-stack April Cohort for the newest technology stack in the industry, 2022

Technical University of Denmark - MSc Computer Engineering in Efficient & Intelligent Systems, 2016-2018

Kyoto Computer Gakuin (Japan) - Exchanged student in Information Technology, 2013-2014

Tianjin University of Science & Technology - BSc Computer Science in Information Technology, 2010-2014