

ZHAO GUANLUN

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Experience

2018.6 - 2019.4 Waterloo, Canada	Institution for Quantum Computing (IQC) <i>Research Assistant</i> <ul style="list-style-type: none">Developed a MATLAB program that maps and analyses the light pollution in Ontario.Designed and built an apparatus to control the polarization in optical fibers.
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Education

2019.9 - Now Tokyo, Japan	Waseda University Graduate School of Advanced Science and Engineering <i>Master of Applied Science</i> <ul style="list-style-type: none">Research in Quantum Optics and Optical Micro-resonators.Data analysis and automation using Python3.
2017.9 - 2019.4 Waterloo, Canada	University of Waterloo Physics Department, Faculty of Science <i>Bachelor of Science</i> <ul style="list-style-type: none">Honours Physics (Major), Economics (Minor)Dean's Honours ListAcademic Standing: Excellent standing

Coding Related Education

Udemy Zero To Mastery Academy <i>Full Stack Developer</i> <ul style="list-style-type: none">HTML5 + CSS3 + BootstrapJavaScript + TypeScriptReact + ReduxNode.js + ExpressPostgreSQL & Redis DatabasesCICDDockerSessionsFront & Back End Performance OptimizationsCloud ServiceProgressive Web AppsSoftware TestingServer & Client Side Rendering
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Coursera <i>Accelerated Computer Science Fundamentals Specialization</i> <ul style="list-style-type: none">Object-Oriented Data Structure in C++Ordered Data StructuresUnordered Data Structures
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Additional Information

- Languages: Mandarin (Native), English (Fluent), Japanese (N1)
- Programming: JavaScript, TypeScript, C++, Python, LabVIEW, MATLAB
- Cisco Certified Network Associate Routing and Switching (CCNA RS)

The stories You may want to know about Zhao Guanlun

Part 1 – Waterloo, Canada

Part 2 – Tokyo, Japan

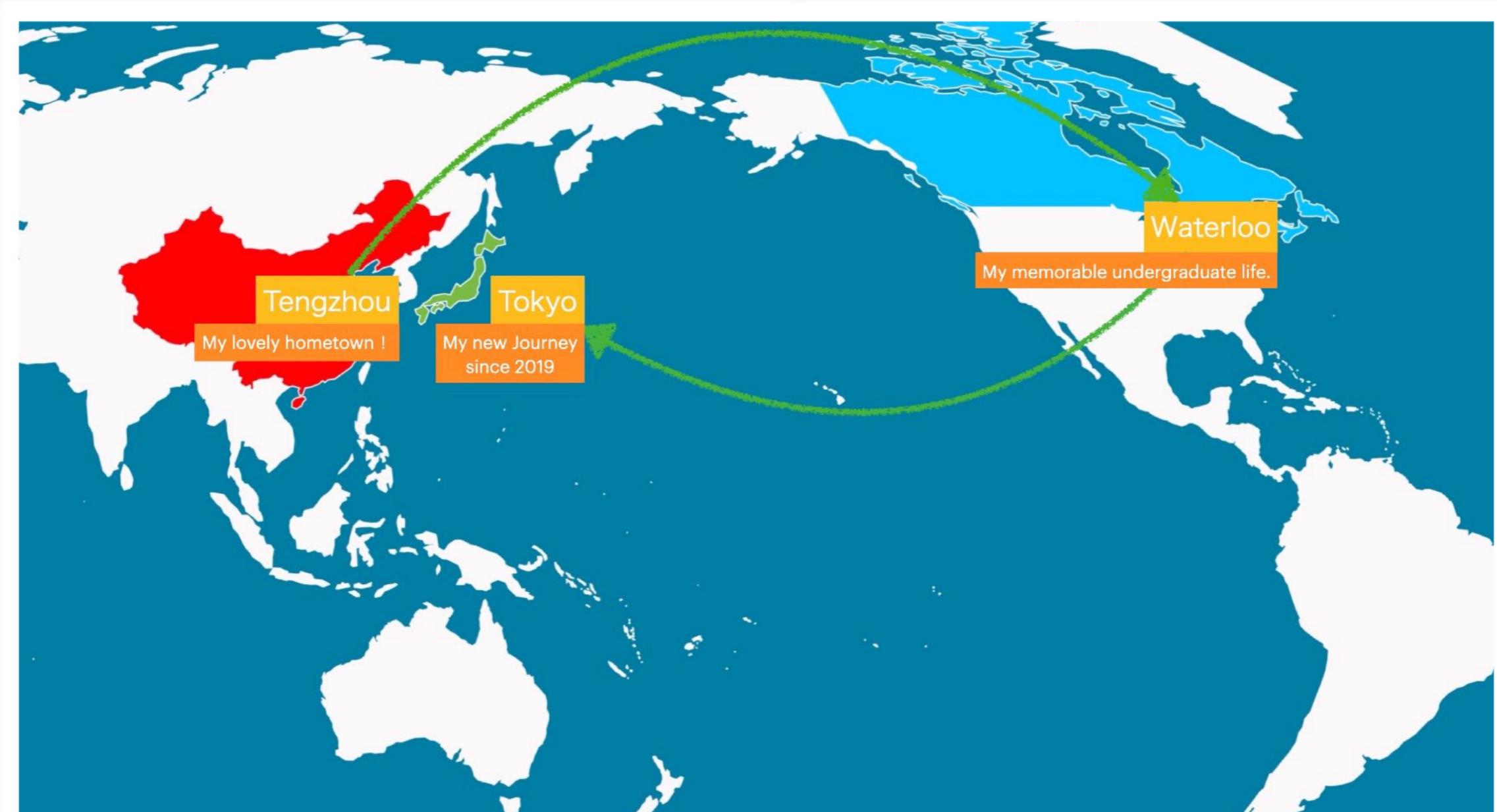
Part 3 – Self-taught Programmer

Part 4 – Project

INSTITUTE FOR THEORETICAL PHYSICS



*Let's start with map and pics.
— I enjoy travel.*



I'm a mandarin native speaker who also speak fluent English. I also learned Japanese by myself and passed Japanese N1 test.

PART1—Waterloo, Canada



University of Waterloo
Physics Department, Faculty of Science
Bachelor of Science

- Honours Physics (Major), Economics (Minor)
- Dean's Honours List
- Academic Standing: Excellent standing



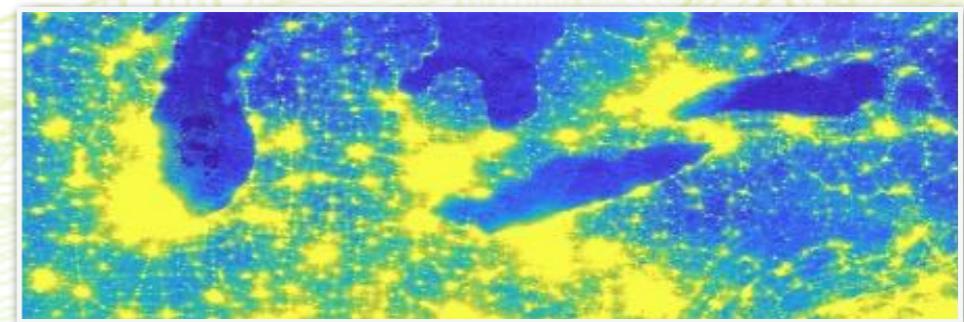
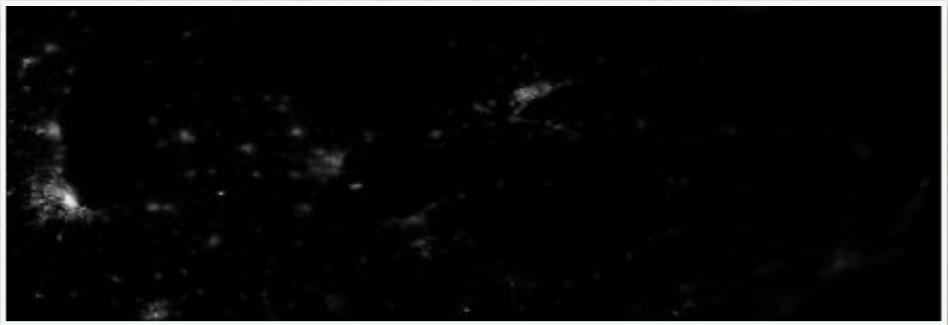
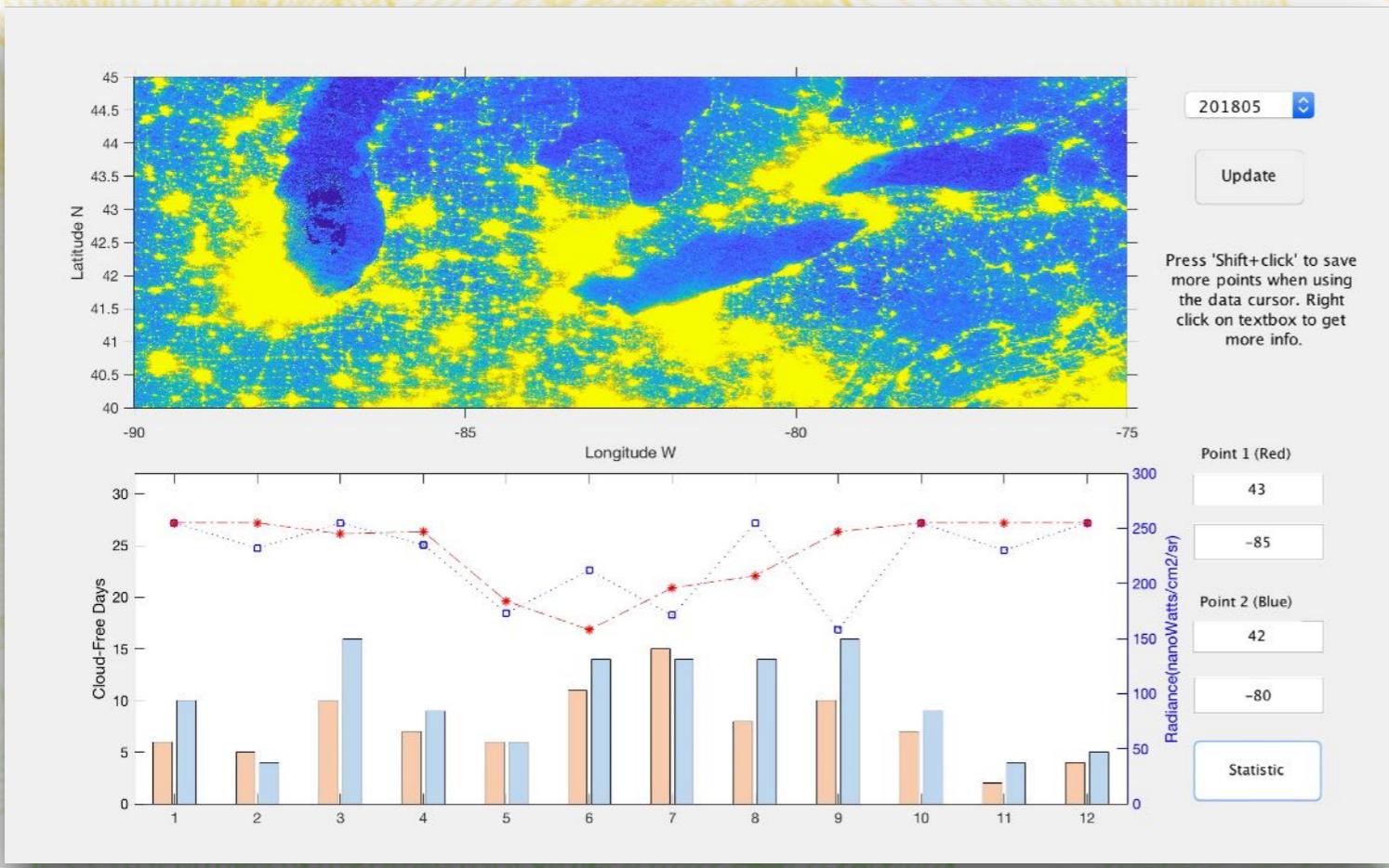
UNIVERSITY OF
WATERLOO

Institution for Quantum Computing (IQC)

Research Assistant

- Designed and built an apparatus to control the polarization in optical fibers.
- Developed a MATLAB program that maps and analyses the light pollution in Ontario. (-> Details in Next Page)

IQC Institute for
Quantum
Computing



The original file from NOAA and after processing

This is my start point in learning coding.

My supervisor asked me to develop a program that analyses light pollution and cloud coverage in Ontario and give out the temporal statistics. I'd like to build a web app for the best experience and performance, for NASA/NOAA provide both downloadable data and a web API. However, due to the limited time and lack of knowledge of developing web app, I had to finish the work by using MATLAB, which is unfortunate.

At that time, I took the decision to learn program development.

I also obtained my CCNA during summer break



During the summer when I was waiting for attending graduate school, I returned to my hometown and started working for my father's small company which provides IT support to local enterprises. At that time, I studied CCNA by myself and passed the test.

PART 2— Tokyo, Japan



Waseda University
Graduate School of Advanced Science and Engineering
Master of Applied Science



WASEDA University
早稻田大学

- Research in Quantum Optics and Optical Micro-resonators.
- Fabricated lensed fibers and used them to couple light into on-chip light waveguide.
- Python3, data analysis and automation.

Udemy — Zero To Mastery Academy
Full Stack Developer

HTML5 + CSS3 + Bootstrap • JavaScript + TypeScript • React + Redux • Node.js + Express + RESTful API • PostgreSQL & Redis Databases • Front & Back End Performance Optimizations • Progressive Web Apps • Software Testing • Server & Client Side Rendering • Docker • Sessions • Cloud Service (AWS) • CICD

Coursera — Accelerated Computer Science Fundamentals Specialization

- Object-Oriented Data Structure in C++
- Ordered Data Structures
- Unordered Data Structures

Part3—As a Self-taught Programmer and My First Income from Coding

After I entered the graduate school, besides my daily research, I started using my spare time to learn web development systematically through books and online courses. The primary reason why I chose web development is that I felt sorry for the web app I wasn't able to build which I've mentioned in previous section. Another reason is that I am using python in data analysing and automation everydays, I'd like to try new challenges.

The more I learned, the more I was interested by program development. I really enjoys solving problems and building products that people may use in their daily life.

Luckily, Introduced from a friend, I was able to build a website for a real estate agent company. Through this job



物件紹介

物件名	所在地	面積	価格
コンフォリア白金高輪	東京都港区三田5 東京メトロ南北線/白金高輪駅 4分	1LDK 37.74m ²	16.7万円
プレール玉石	東京都北区豊島4 J R京浜東北線/王子駅 10分	3DK 58.54m ²	12.2万円
セントラルマンション 本郷	東京都文京区本郷6 東京メトロ南北線/東大前駅 7分	1K 16.77m ²	7万円

PART 4— Project - An Inventory Management Web App

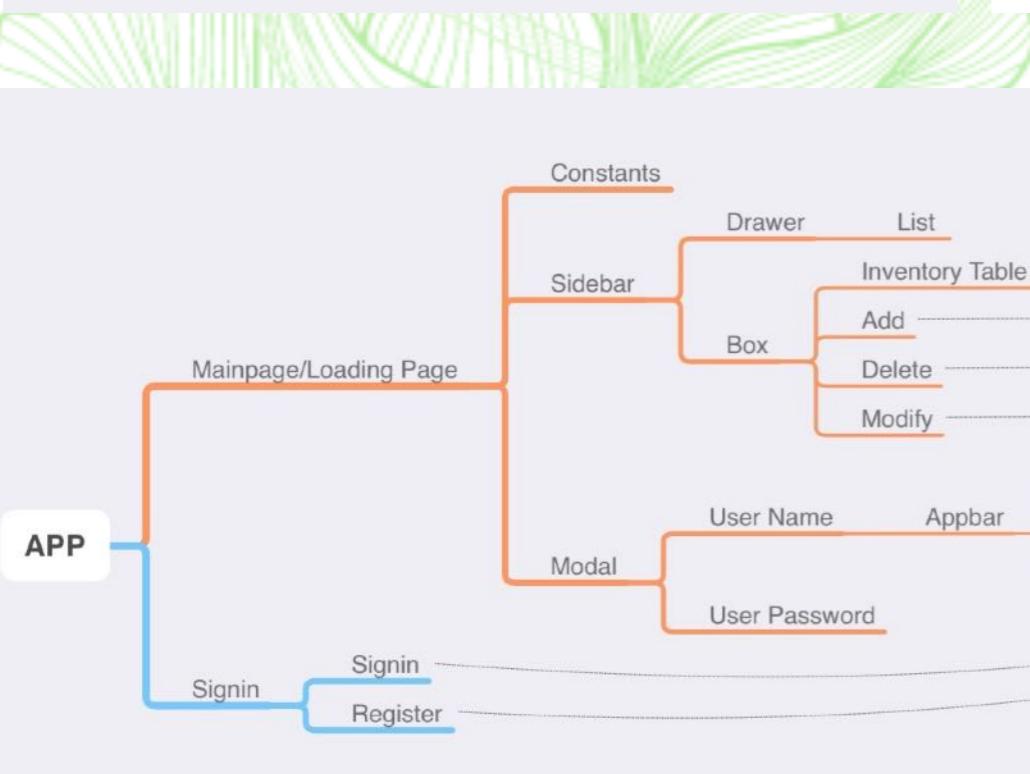
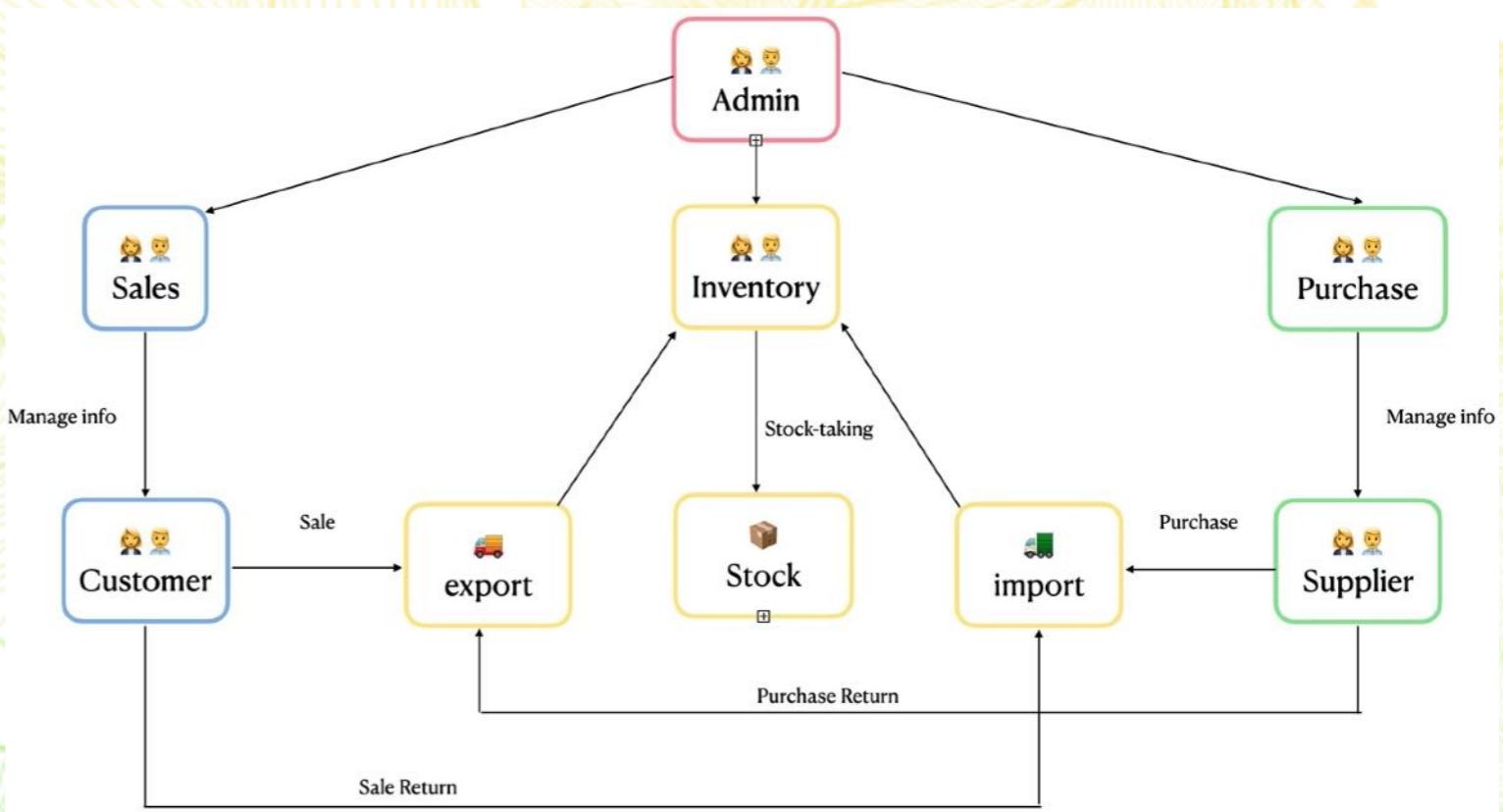
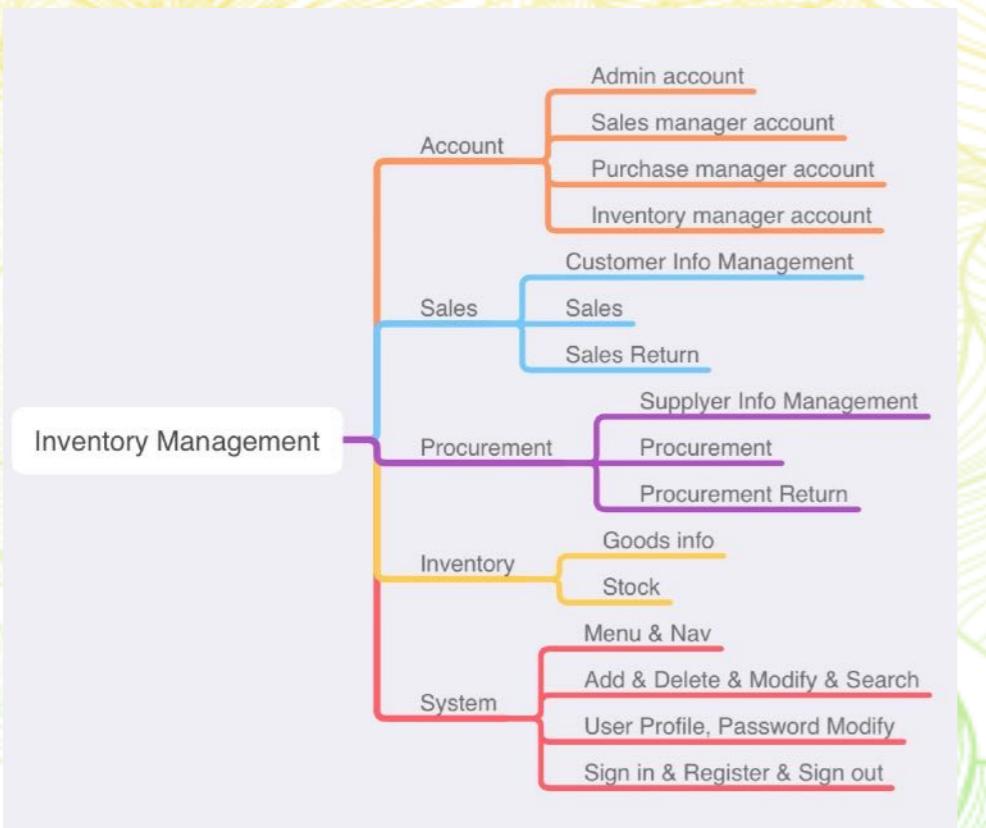
The left screenshot shows a table with the following data:

ID	SKU	Stock
1	101-elz	23
2	233-elz	5
10	105-elz	50
13	754-elz	49
14	934-elz	84
21	758-elz	25
11	104-elz	49
12	140-elz	27
31	155-elz	15

The right screenshot shows a modal dialog with the following fields:

John Hopkins	
Name *	
Password *	
UPDATE	CANCEL

The purpose of this personal project is to practice my skills in the entire development process of a web app, from confirming requirements, architecture design, coding, testing, to deployment, which uses the technology I learned and experience gained from other projects. Also, building a basic system and forming a certain standard that could be reused in different projects would save a lot of time in the future.



Summary of objects and goals of this project:

- Analysis the user needs from customer-oriented perspective
- Refine skills in using ReactJS+Node.js+Express
- Master Material-UI and other open source tools
- Utilize and practice the technologies I learnt, like Docker, Webpack, Jest
- Design and construct database with PostgreSQL

System designing is the most creative and challenging part of the entire process. Through this process, I had to stand on the customer's perspective to design the system.

Thank you for your time reviewing my resume!

I'm looking forward to working with you!

You can find me through:

Linkedin: <https://www.linkedin.com/in/guanlun-zhao-548b71174/>

Email: zhaoguanlun@gmail.com