Xiangning(Rosie) Lin

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EDUCATION

Carnegie Mellon University   Pittsburgh, PA
Master of Science in Electrical and Computer Engineering, GPA: **3.83/4.0**   May 2023
Core Coursework : Foundation of Computer Systems, Build Reliable Distributed Systems, Advanced Cloud Computing, Principles of Software Construction

University of Chinese Academy of Sciences   Beijing, China
Bachelor of Science in Mathematics, GPA: **3.81/4.0**   Jul 2020

Columbia University   New York, NY
Visiting student, GPA: **3.93/4.0**   Sept 2019 – Dec 2019

WORK EXPERIENCE

eBay, Data Infra Team   Shanghai, China
Software Engineer Intern (Full time)   Feb 2021 – Jul 2021
Delivered **30+ features/bug-fix** for Rheos portal (eBay's near real-time data platform with **500+ tenants and 3100+ users**) utilizing **Javascript**, **React Hooks**, **Redux**, **Node.js** and **Material-UI:**

- Innovated a generic and reusable **Flink cluster upgrade wizard** collaborating with backend engineers, directing **21% users** to migrate **100+ Flink clusters automatically**.
- Initiated and launched a key-word search supported **FAQ popup**, which lists solutions to the frequently asked questions on the oncall slack channel, **reducing user support calls by 35-40%**.
- Originated a **data sampling** page for users to query Kafka topic sample data, improving users' efficiency by viewing topic payload **in seconds** and reducing time efforts to write consumers.
- Added enter/exit full screen mode for Flink SQL Editor without losing code using localStorage; supported admin role to batch operate ACL requests with rejected reasons displaying on rejected tickets.

PROJECTS

Full-stack Amazon-clone Website | Independent Project | *Website*   Jan 2021 – Feb 2021
- Achieved the Add to basket/Remove from basket/Change the number of products functionalities with **React Context API** to manage states.
- Implemented **authentication** by **Firebase** where customers can sign in to create accounts, log in/out and track orders' history data.
- Tracked the orders' data using **Firebase database**, **Node.js and Express.js** to list the order history of a specific customer.
- Applied **Stripe.js** to realize payment process by all major debit/credit cards across the world.

COVID-19 Tracker | Independent Project | *Website*   Jan 2021 – Feb 2021
- Designed three cards to show daily and total new/recovered/death cases given a selected country from a Menulist with **Material-UI**.
- Adapted a world map to display case number by country-centered circles utilizing **Leaflet.js**, center and zoom in the map to the position of a country with a flag popup when it's clicked.
- Visualized worldwide COVID-19 cases through tables and line graphs using **Chart.js** and disease.sh API to fetch real-time data.

Voice Recognition News App | Independent Project | *Website*   Dec 2020 – Jan 2021
- Prototyped a news searching website using **React Hooks** with News API to get the latest news data.
- Applied an interactive AI voice assistant by Alan Studio to execute user's voice commands.
- Integrated "smallTalk" function where the AI gives response to casual conversation.

SKILLS

Programming Languages: JavaScript/TypeScript, HTML, CSS, Java, C, Python
Frameworks/Libraries: React, Material-UI, Node.js, Express.js, Terraform, Docker, AWS service