

JINGZHOU(RICK) TAO

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Education

Northeastern University

Master of Science in Computer Science

Sep. 2021 – Jan. 2024(expected)

Seattle, WA

Southwestern University

Bachelor of Science Economics (Major/Minor: Applied Mathematics) | GPA:3.9

Sep. 2017 – June. 2021

Chongqing, China

Technical Skills

Languages: JavaScript/TypeScript, Python, Java, C++/C, HTML/CSS, SQL, PHP/Hack, Kotlin

Developer Tools: VS Code, Eclipse, Idea, Android Studio

Technologies/Frameworks: React.js, MySQL, GraphQL, Relay, Spring Boot, AWS, Node.js, Kubernetes, Angular, Linux, Jenkins, Docker, Django, JUnit, Redux, Git, FireBase, DataBase, Vue, MongoDB

Work Experience

Meta

May. 2022 - Aug. 2022

Software Engineer Intern | Javascript,React.js,MySQL,Python,PHP,GraphQL

Seattle, United States

- Co-leded **two** metrics dashboards with **eight** data chart components that showcase the privacy data work in Facebook's internal platform by React, Javascript, and CSS in Privacy Data Lineage team.
- Built up **nine** data visualization pipelines from three Hive tables by SQL,and PHP(Hack) to query privacy data.
- Implemented the GraphQL endpoint,connecting the fetched data to the front-end client side with Relay framework.
- Helped team add loggers to interact with two pages, two tabs, and multiple buttons for supervising the loading time, visit times, and ID by distinct users and errors occurring in the data fetch and react component phases.
- Designed an Unidashboard to showcase the loggers and errors information to help users access the data in dashboards.
- Moved out of querying data in hive database to another performance storage XDB database by Python and utilized memoization to cache the query data preventing component re-rendering; Increased the overall performance by **80%**.

Crungoo Information Engineering Co.Ltd

Mar. 2021 - Sep. 2021

Software Engineer Intern | Java, React.js, Vue.js, Node.js, Spring boot

Chengdu, China

- Designed a single page Engineering Management application by Java, React, Node, MongoDB, Spring Boot etc. The application was delivered to China Railway Group Limited and used for **2000 customers**.
- Helped team initialize a task management system to help employees to arrange and assign their work tasks.
- Connected the system with Spring Boot Rest API Services and enhanced the login component's security with Java Spring Security and Auth API.
- Prototyped a Contacts Screen with **three** components using Vue and mint framework storing **2200 pieces** of employee information.Made progress 2 weeks ahead of schedule.

Selected Projects

E-commerce App | React.js, Typescript, Redux, GraphQL, ContextAPI, Stripe, Firebase

Feb. 2022 - Mar. 2022

- Led a 4-member team to develop an enterprise level full stack e-commerce(PWA), including user signings and online payments. Succeeded through good architecture decisions and helping others on my team.
- Originated the payments function using the stripe API to enable store purchases and advanced payment function by implementing Firebase features to prototype a stripe back-end with Java.
- Utilized React Router and Firebase to maintain different pages on the app and also manage user signings.

2D Dodging game and side scrolling game with C++ | C++,Raylib

Sep. 2021 - Oct. 2021

- Designed and Prototyped 2D Dodging game and side scrolling game with RayLib games library and object-oriented programming for C++.

CICD Pipeline for Django Applications | Git, Jenkins, Docker, Django,Python

Oct. 2021 - Dec. 2021

- Initialized a CICD Pipeline for Django Applications and deployed the applications to AWS cloud.
- Utilized Jenkins for Continuous Integration to build Virtual Machines on a personal computer.

REST APIs with Flask and Python | Python, Rest APIs, JWT, Flask

Sep. 2020 - Dec. 2020

- Prototyped a REST API with Python and performed user management operations like login, logout,token refreshing and securing endpoints; Deployed the APIs to servers.