

# YUCHEN LIU

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Personal website: <https://yuchenliu.me>

GitHub: <https://github.com/yuchenliu15>

## WORK EXPERIENCE

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### Software Engineer Intern

7/2020 - 9/2020

*wortharead.app*

- Built highly reusable UI layouts and components VueJS and Sass. Improved rendering performance with efficient state management and dynamic routing
- Designed data models and indexes in DynamoDB for complex queries that needs fast performance.
- Created RESTful APIs for data and assets pipelines to AWS DynamoDB and S3. Wrote Buffer Protocols to ensure uniformity and type safety of data.

## PROJECTS

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### Coronavirus globe

<https://github.com/yuchenliu15/coronavirus-globe>

NodeJS application with Google Cloud API and SQLite3 storage. Cleaned and processed the data before rendering the globe visualization with Three.js.

### SpaceX Countdown

<https://spacetime.live>

ReactJS application with SpaceX API display the SpaceX launches information. Used React state, context, effect hooks and HOCs. Styled with React Bootstrap, CSS Flex and Grid.

### A clone of Bootstrap website

ReactJS site with Redux and Saga that's connected with Firebase. Styled with React Spring, Material UI, and CSS modules.

## SKILLS

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- Programming: NodeJS, Java, Python, Ruby/Rails, C, ReactJS/Redux, VueJS, QuasarJS, Sass, HTML/CSS/JS, PostgreSQL, SQLite, MongoDB, Firebase
- Tools: Git, Linux, Jest, Framer

## AWARDS

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### HackNYU, UiPath winner

Worked on backend to integrate and create API endpoints for front-end with NodeJS and ExpressJS. Created a robust blockchain digital wallet with Stellar API.

## EDUCATION

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### NYU Courant Institute of Mathematical Sciences

2019 - 2023

*CS and Data Science, BA*

Relevant courses: Intro to Data Science, Calculus 3, Data Structure, Discrete Math, Computer System Organization