

# YU-AN CHAN

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## EDUCATION

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### Minerva Schools at KGI

*Sep 2019 - Present*

*Computational Science and Business Double Major*

- A four-year university program with an 1.9% acceptance rate and students from more than 70 countries, focusing on combining education with practical skills in a real-world setting.

### National Taiwan University

*Sep 2016 - Jun 2017*

*Physics and Mathematics Double Major, Voluntary Dropout*

- **GPA 4.05/4.3** including the following courses: Web Development Seminar (for senior), Classical Electrodynamics (for Master), General Relativity (for PhD)

## WORK EXPERIENCE

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### Skysource Technologies

*Dec 2017 - Apr 2018*

*Junior Software Engineer and Consultant*

- **QR Code check-in and pick-up system:** Worked with clients to gather feature requirements, designed, and built a QR code check-in and pick-up system using React, Node.js, knex, MySQL, and Instascan. It has been adopted in the real world and provided a safer experience for parents to pick up students from the school.

## SELECTED PROJECTS

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**NTUAA.io** - <https://github.com/Scya597/NTUAA.io>

Developed a full-stack multiplayer web game from scratch, designed the entire program structure and physics engine, chose the appropriate frontend graphic renderer (Pixi.js), generated the production code using webpack, and deployed using Nginx and GCP. In the three days I hosted the game, there were over 600+ online players.

**High Quality Resources Collection** - <https://highqualityresources.netlify.com/>

Launched an online project to gather high-quality resources and received 900+ form submissions, deployed the final collection on Netlify after filtering and organizing them and has 500+ total users and 40+ weekly active users. It provides users with the opportunity to quickly find high-quality resources and save time from searching.

**Beact** - <https://github.com/vibertthio/beact>

Developed an audio/visual interactive instrument software with Thio and Huang. I used React to implement the frontend drum machine's and keyboard's main functions, and used Node.js and MongoDB to implement the backend functions of saving, chaining, and recording drum patterns and keyboard activities. It has 5400+ pageviews and 2300+ unique pageviews in the first 6 months, which shows the vast potential of the computer as a medium of art.

**Web-Full-Stack-Boilerplate** - <https://github.com/Scya597/Web-Full-Stack-Boilerplate>

Developed a boilerplate which provides users with a way to quickly build full-stack web apps, with support to React, Node.js, Express, MongoDB, MySQL, Socket.io, webpack, Sass, hot-reload, etc.

## AWARDS

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2017, Presidential Award, issued by The Department of Physics, National Taiwan University

2015, Reserve member of the Taiwan Team of International Physics Olympiad (10th Place in National Selection)

2015, 1st Place in the category of high school, Intelligent Ironman Creativity Contest

2014, 3rd Place in the category of Mathematics, Taiwan International Science Fair

## TECHNICAL STRENGTHS

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Web Development (Javascript, React, Node.js, Socket.io, MongoDB, Babel, GCP, webpack, Netlify, nginx, Google Analytics), Python, C++, Git/Github, Bash,  $\LaTeX$ , Notion