


# Hong Hong


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## — EDUCATION —

 **Northwestern University** | M.S. in Computer Engineering. GPA: 3.97 / 4.00. Evanston, IL  
Courses: Distributed System, Computer Vision, Data Science, Machine Learning... Sep 2021 - Dec 2022 ○

 **Xiamen University** | B.E. in Computer Science & Technology. GPA: 3.46 / 4.00. Fujian, China  
Courses: Programming, Computer Architecture, Operating System... Sep 2017 - Jun 2021 ○

## — EXPERIENCE —

 **Amazon Web Services (AWS)** - [aws.amazon.com](https://aws.amazon.com) Seattle, WA

Software Development Engineer Intern |  Frontend  TypeScript  React  ECharts Jun 2022 - Sep 2022 ○

- Delivered a real-time rendering data visualization to demonstrate Profit and Loss (PnL) statement for **AWS Fintech** by using **TypeScript** CDK pipeline.
- Implemented automatic data transformation model for both series and hierarchy data that reduce the graph rendering time from 1.5s to 0.9s with **TypeScript** and **React**.
- Developed the interactive and data-adaptive visualization graphs for 80,000+ tabular PnL records. Improved them with **Polaris** and **Apache ECharts** which provides users customized options to generate data trends and hierarchy.

 **Midea Midea** - [midea.com](https://midea.com) Guangdong, China

Software Engineer Intern – Midea Cloud |  JAVA  Python  MySQL  MongoDB Jan 2021 - Mar 2021 ○

- Built **CI/CD** platform for real estate data entry and update with **Java**. Led a five engineers' team and responsible for every version release cycle.
- Used **SQL** and **MongoDB** to build up backend database. Developed an automatic data crawling scripts with **Python** to store and update more than 20,000 data records daily.
- Integrated the unprocessed data backlog with update detection to compress data load. Successfully replaced manual work with automation. Reduced the average daily workload of three hours to ten minutes through the designed platform.

## — PROJECTS —

**Portfolio:** self-coded technical website template. 🔗 [github.com/honghong1012/Portfolio](https://github.com/honghong1012/Portfolio)

-  TypeScript |  Node.js |  Next.js |  Tailwind CSS

- Developed a personal portfolio website to showcase my skills and projects using TypeScript, Next.js, and Tailwind CSS. The website features my work experience, education, and portfolio of projects.
- Utilized Next.js and TypeScript to handle form submissions and server-side validation. Also, added a section to the website that allows me to share my thoughts and knowledge on different topics.

**SmartHealth:** a full-stack health management application during Covid-19. 🔗 [github.com/honghong1012/SmartHealth](https://github.com/honghong1012/SmartHealth)

-  JavaScript |  Vue.js |  Alibaba Cloud

- Implemented front-end UI on framework **uni-app** (multi-end framework for writing applications for all platforms via **Vue.js**), allowed different users to upload health information, check-in for courses from both mobile and computer.
- Built backend on **uniCloud** with **JavaScript**. Used **Alibaba Cloud Service** to store the user data to realize real-time, multi-synchronous administrator add, delete, and check operations.
- Embedded the program in the **WeChat** platform and successfully deployed into use.

## — SKILLS —

Languages: proficient: **Python, C, JavaScript**. competent: **TypeScript, SQL**. intermediate: **Go, Rust**.

Backend: Node.js, Spring Boot, MongoDB, core services of AWS, Azure

Frontend: React, HTML, CSS, BootStrap.

QA & DevOps: JUnit, Jest, Enzyme

Others: Git, Docker, Linux