Hong Hong

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— EDUCATION —

Ⓝ Northwestern University | M.S. in Computer Engineering. GPA: 3.97 / 4.00. Evanston, IL
Courses: Distributed System, Data Privacy, Machine Learning, Advanced Algorithm… Sep 2021 - Dec 2022 ○

Ⓧ Xiamen University | B.E. in Computer Science & Technology. GPA: 3.46 / 4.00 (Top 30/100). Fujian, China
Courses: Programming, Algorithm, Computer Architecture, Operating System, Database… Sep 2017 - Jun 2021 ○

— EXPERIENCE —

a Amazon Web Services (AWS) - aws.amazon.com Seattle, WA
Software Development Engineer Intern | 🖥Frontend TS TypeScript ⚛React ⚫Apache Jun 2022 - Sep 2022 ○

- Developed a real-time rendering **data visualization** showcasing Profit and Loss statements for **AWS PRISM** (PRofitability InSights Manager), utilizing **AWS CloudFormation pipeline** to deploy the application from alpha to prod stage.
- Developed and integrated multiple data-requesting **Lambda** functions with **API Gateway** and **S3 bucket**, creating efficient and secure **REST APIs** for web application to retrieve required financial data.
- Leveraged **TypeScript** and **React** to transform over 80,000 plain tabular data records into user-interactive and data-adaptive visualized-charts, streamlined data analysis and enhanced customer insights to inform decision-making.
- Created and deployed reusable **React components** that transforms data into the formats required by **Polaris** and **Apache ECharts**, optimized data formatting and improved data compatibilities with libraries.

Ⓜ Midea - midea.com Guangdong, China
Software Engineer Intern – Midea Cloud | 🐍Python MySQL SQL 🛠Jenkins 💾DynamoDB Jan 2021 - Mar 2021 ○

- Performed data filter and classification for **Smart Home Appliances Project**, with **pandas**, **R** and **SQL** in data processing. Employed the **KNN (K-Nearest Neighbors)** algorithm for multi-class classification to identify abnormal data.
- Designed and implemented a real-time **CI/CD** platform that automates builds triggered by cloud server data updates. Developed a **Jenkins Groovy**-based pipeline, reducing manual workload by over 90%, from two hours to ten minutes.
- Maintained **DynamoDB** database and created multiple **REST APIs** for efficient retrieval of historical data, improving data analysis convenience and efficiency for other engineers.

— PROJECTS —

TickMaster: a **Microservices**-based ticket resale web application. 🔗 github.com/honghong1012/TickMaster
- TS TypeScript | JS Node.js | ⚛React | ⚙Kubernetes | ☁Google Cloud

- Implemented a microservices architecture using event-driven communication with TypeScript, Node.js and Express.js.
- Designed and developed the frontend UI using React, Redux, and Material UI.
- Configured and deployed the application to a Kubernetes cluster using Google Cloud Platform.
- Integrated MongoDB for data storage and developed efficient methods for handling async data updates.

SmartHealth: a **full-stack** health management application during Covid-19. 🔗 github.com/honghong1012/SmartHealth
- JS JavaScript | ⓥVue.js | ⊟Alibaba Cloud

- Implemented the frontend UI using Vue.js and uni-app platform, resulting in an intuitive and responsive user interface.
- Leveraged Alibaba Cloud Service to store user data and enable multi-synchronous administrator operations.
- Integrated the application into the WeChat platform and successfully launched it for practical use.

Portfolio: fully functional technical website. 🔗 github.com/honghong1012/Portfolio
- TS TypeScript | JS Node.js | Ⓝ Next.js | 🌊Tailwind CSS | Ⓑ Bootstrap

- Implemented a fully functional technical website highlighting my experience, education, and project with TypeScript, Node.js, Next.js, Bootstrap and Tailwind CSS.
- Utilized HTML and CSS to customize a website with responsive design, accessibility and eye-catching animations.

— SKILLS —

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

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

Frontend: React, Bootstrap, Redux. **QA & DevOps**: JUnit, Jest, Enzyme **Others**: Git, Docker, Linux