

Haitian Hao

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Education

University of Maryland, College Park, MD

Sep. 2017 - May. 2021

- **Double Degree** - Bachelor of Science in *Computer Science* and *Mathematics* GPA: 3.5/4.0
- **Honors**: Academic Dean's List

Intern Experience

Software Engineering Intern at *Dajia Insurance Group (Beijing)*

Jul. 2019 - Aug. 2019

- Constructed a cloud computing project using **Kubernetes**, virtual machine with 6 other team members
- Applied Java AOP (Aspect-Oriented Programming) technique in the basic model of insurance business

Software Engineering Intern at *AIA Information Technology (Beijing)*

Jul. 2017 - Aug. 2017

- Carried out **frontend testing** on software and product
- Manipulated work-related relational databases with **SQL**
- Visualized data with **Python**, analyzed data and predicted the trend

Project

Android Development (*Java*)

Jul. 2020 - Current

- Designed and built basic infrastructures of Android applications on Android Studio
- Organized code based on Structural Patterns (Facade), learned other Design Patterns
- Handled bugs and issues, ensured adaptability and improved performance

Stock Price Prediction (*Python*)

Mar. 2020 - May. 2020

- Implemented deep learning model Fully Connected Layer (FC) and 3-layer Long short-term memory network (LSTM) to achieve best predictions using Jupyter Notebook

Implementation of data structures (*Java*)

Sep. 2019 - Jan. 2020

- Implemented practical data structures including BST, Min-Heap, Max-Heap, Linked List, AVL-Tree, Red-Black Tree, etc.
- Worked on improving speed and memory usage of data structures and algorithms

Analysis and Prediction of House Sales Price (*Python*)

Jul. 2019 - Aug. 2019

- Applied data cleansing operations and data visualizations on raw dataset
- Used clustering and regression machine learning models to train data, reached precision of over 80%

Skills

- **Career**: Algorithm Optimizations, Software Developing, Data Science, Machine Learning
- **Tools & Technologies**: Proficient in Java, Python, SQL, JavaScript, C++, Ruby, QuickSight, SAS, Git
- **Work Attitude**: Familiar with algorithm design and optimizations, complexity analysis; Collaborative and innovative when working with people; Determined to think and learn abstractly and work practically; Adaptable to fast-paced environment
- **Language**: English, Mandarin