# Hongdi LAI

Portfolio: hongdi.web.app | E-mail: hongdilai0105@gmail.com | GitHub: github.com/Hongdi-LAI

## Education
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| **Université Côte d'Azur** | Nice, France |
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**Degree:** Master of Science in Hydro-informatics and Water Management (Full English Course)  — Graduated on 31/08/2020

**Subjects:** Machine Learning, Numerical Modelling, Risk & Sustainable Management, Web Design — GPA: Top 10%

| **Beijing Institute of Technology** | Beijing, China |
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**Degree:** Bachelor of Science in Electrical Engineering and Automation (Full English Course)  — Graduated on 26/06/2018

**Subjects:** Control Theory, Algorithm and Data Structure Optimization, Object-Oriented Programming — GPA: 3.0/4.0

## Work Experience
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| **DHI Water & Environment (S) Pte Ltd** | Singapore, Singapore |
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**Position:** Hydro-informatic Specialist (Data Science/Website Design) — September 2020 - Now

**Responsibilities:** Engaging in Machine Learning Projects while coordinating and bridging the knowledge between the modelling team and the software team, and using React as Front-end design framework

| **City Government of Nice/ Polytech Nice** | Nice, France |
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**Position:** Software Developer and Product Manager — March 2020 to August 2020

**Responsibilities:** Developing and designing the whole functionalities of an augmented reality mobile app to visualise city-wide flood data for the use of 1-million Nice urban area inhabitants and water experts

| **Willis Re/ National University of Singapore** | Singapore, Singapore |
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**Position:** Intern Catastrophe Data Analyst — June 2019 to September 2019

**Responsibilities:** Optimizing Python-based catastrophe model on flood maps of Jakarta, analysing existing data collections, achieving reinsurance evaluation, and acquiring loss functions

| **Bionic-Robot Research Team of Beijing Institute of Technology** | Beijing, China |
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**Position:** Junior Robotics Engineer — March 2018 to June 2018

**Responsibilities:** Optimizing and testing the mechanical and dynamical model of amphibious robot with AutoCAD and C++ based on BPNN deep-learning algorithm, tracing ability testing using Fuzzy PID

| **BIT Laboratory of Intelligent Information Processing and Control** | Beijing, China |
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**Position:** Intern Software Developer — April 2016 to June 2017

**Responsibilities:** Building distributed system in C++ using Socket and UI design with MFC Framework for the University-wide remote experiments initiative

## Skills
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- **Proficient in:**
    - JavaScript, CSS3(BEM), HTML5, React Framework (React Hooks + Statement Management)
    - Node.js (RESTful API), Express.js (Server), MongoDb (Database), and Firebase (Cloud Platform and Hosting)
    - Responsive Web Design, Well-organised and Read-able Code Writing
    - Git and GitHub for Version Control and Technical Documentation
    - Python (Data Analysis and Objective Programming), C# (Objective), C++ (Objective), Java
    - SQL for Data Configuration and Tableau for Data Visualisation

- **Basic in:**
    - R, Hadoop, and Spark Apache
    - Typescript, Vue.js, Angular.js
    - React Native

- **Language Proficiency:**
    - English: Native/ C2
    - Mandarin & Cantonese: Native
    - Japanese: N4
    - German: C1/B2
    - French: A2