

Hongdi LAI

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

Education

Université Côte d'Azur

Nice, France

Degree: Master of Science in Hydro-informatics and Water Management (Full English Course)

Graduated on 09/09/2020

Subjects: Machine Learning, Numerical Modelling, Risk & Sustainable Management, Web Design

GPA: Top 10%

Beijing Institute of Technology

Beijing, China

Degree: Bachelor of Science in Electrical Engineering and Automation (Full English Course)

Graduated on 26/06/2018

Subjects: Control Theory, Machine Learning, Algorithm and Data Structure Optimization

GPA: 3.0/4.0

Work Experience

DHI Water & Environment (S) Pte Ltd

Singapore, Singapore

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

Position: Software Developer

March 2020 to August 2020

Responsibilities: Developing an augmented reality mobile app (C# and Unity3D) to visualise city-wide flood data for the use of 1-million Nice urban area inhabitants and water experts alike

Willis Re/ National University of Singapore

Singapore, Singapore

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

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

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

• Proficient in:

- JavaScript, CSS3(BEM), HTML5, React Framework (React Hooks + State Management)
- Node.js (RESTful API), Express.js (Server), MongoDB (Database), and Firebase (Cloud Platform and Hosting)
- Responsive Web Design, organised and readable code writing
- Git and GitHub Practices for Version Control and Technical Documents Sharing
- Python (Data Analysis and Object Oriented Programming), C# (Object Oriented), C++ (Object Oriented), 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