

# Youwei Huang

Home Page: [www.devil.ren](http://www.devil.ren)

LLM Avatar: [chat.devil.ren](https://chat.devil.ren)



**Date of Birth:** April 23, 1995

**Place of Birth:** Suzhou, Jiangsu, China

**Professional Experience:** 7 years with over 10 patents, 6 papers, and numerous projects

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## Academic History

**Macau University of Science and Technology**

*Jan 2022 – Jan 2023 (Withdrawn)*

*Taipa, Macao SAR*

**Ph.D. Candidate**

Research Focus: Software Engineering, Blockchain, Deep Learning

**Monmouth University**

*Sep 2019 – Aug 2020*

*West Long Branch, NJ, USA*

**Master of Science in Software Engineering (ABET Accredited Program)**

Research Focus: Software Engineering, Web Development, Blockchain

**Changshu Institute of Technology**

*Sep 2013 – Jun 2018*

*Suzhou, Jiangsu, China*

**Bachelor of Engineering in Software Engineering**

Included a one-year gap for entrepreneurship

## Full-Time Experience

**Institute of Intelligent Computing Technology, Suzhou, CAS (IICT)**

*May 2020 – Present*

*Local branch of Institute of Computing Technology, Chinese Academy of Sciences*

**Suzhou Zhongke Lelian Information Technology Co., Ltd (Lelian)**

*Jan 2022 – Oct 2022*

*Subsidiary company established by IICT*

*Suzhou, Jiangsu, China*

**Title:** Research Engineer & Team Lead at IICT; Project Manager at Lelian Co.

Conduct AI and Blockchain research, managing projects and teams at IICT. Led the incubation of Lelian Co., transforming the institute's innovative technologies into commercial products.

**Shanghai LeMiao Network Technology Company**

*Jun 2018 – Aug 2019*

*Shanghai, China*

**Title:** Software Engineer

Developed web applications and games; implemented DevOps practices

For more about my work, please visit: [www.devil.ren](http://www.devil.ren) or ask my LLM: [chat.devil.ren](https://chat.devil.ren)

# Representative Projects

## AI for SE Research - Web3 Software Engineering

*Jan 2022 – Now*

*Macau University of Science and Technology*

*Supervisor: [Associate Professor Tao Zhang](#)*

This is a cross-disciplinary research project at the intersection of Software Engineering, AI, and Blockchain. Our research focuses on Web3 Software Engineering (**Web3SE**) with the aim of enhancing existing software engineering models, methods, and tools to better support the development of Web3 applications. We have introduced **SmartIntentNN**, a deep learning model designed to detect unsafe development intents in smart contracts. More details and resources are available on our [GitHub](#), and the related paper "**Deep Smart Contract Intent Detection**" can be found on [arXiv](#). Another achievement is **SmartBERT**, a pre-trained programming language model based on BERT/RobERTa, which captures smart contract representations and is accessible on [HuggingFace](#). Further research on Web3SE, e.g., developing a Smart Contract LLM, is underway.

## Blockchain Project - Application of Blockchain in Medical Health

*May 2021 - Oct 2023*

*Institute of Intelligent Computing Technology, Suzhou, CAS*

*Supervisor: [Professor Xiaofang Zhao](#)*

We developed **LeChain**, a consortium blockchain designed for healthcare applications, creating a trustable network among hospitals, patients, insurance companies, and health committees. LeChain leverages blockchain's immutable and traceable features to enable secure and reliable proof of medical data exchange. In this project, my research focused on cross-chain solutions, smart contracts, and privacy computing, publishing five invention patents and one journal paper. I also authored several technical white papers. This project won the "**2022 Jiangsu Province Blockchain Industry Development Pilot Demonstration Project**" award and incubated a blockchain technology company: [Suzhou Zhongke Lelian Information Technology Co., Ltd.](#)

## BigData Project - Precise Epidemic Prevention and Control

*May 2020 – May 2021*

*Institute of Intelligent Computing Technology, Suzhou, CAS*

*Supervisor: [Professor Peiheng Zhang](#)*

This is a project about utilizing big data in anti-epidemic engineering. I led our team in researching two key technologies. First, we used **GeoHash** to dynamically divide regions and quantify the health and safety metrics of both divided areas and individuals. Second, we utilized **generic wireless bases**, such as Bluetooth and WiFi, to build anonymous contact networks for tracing and analyzing virus transmission paths. Project success includes: 1. Supporting government CDC efforts during the COVID-19 pandemic; 2. Publishing the paper "**Precise Epidemic Control based on GeoHash**" at DSA2022; 3. Secured 4 invention patents, with 3 granted; 4. Being selected for the "**2021 Youth Talent Support Project of the Suzhou Association for Science and Technology**".

For more about my work, please visit: [www.devil.ren](http://www.devil.ren) or ask my LLM: [chat.devil.ren](https://chat.devil.ren)