

Haiwei DU

BACHELOR OF ENGINEERING · COMPUTER SCIENCE

JYB13-19, Beijing Jiaotong University, Haidian, Beijing, People's Republic of China

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“Be the change that you want to see in the world.”

Education

Beijing Jiaotong University

Beijing, China

B.ENG. IN COMPUTER SCIENCE

Sep. 2020 - July. 2024(expected)

- GPA: 3.89/4.0
- Courses with distinction: Probability Theory and Mathematical Statistics, Machine Learning, Data Structures, Software Engineering, Operating System, Mathematical Modelling Method, Discrete Mathematics, Computer Architecture, IT Professional English

Skills

DevOps	Docker, Git, Visual Studio, UNIX/Linux, MultiSim, Matlab, Visio, PyTorch
Framework	Django, Numpy, Pandas, Matplotlib, OpenCV, LaTeX
Programming	C/C++, Python, JAVA, SQL, MIPS Assembly, JavaScript, HTML5, CSS
Languages	Mandarin (Mother Tongue), English (Working Language), Cantonese (Basic Communication), German (Basic Communication)
Others	Public speech, Medical techniques, Creative writing, Shooting, Swimming
Coursera	China and Political Science(HKUST), Economic Reform and Growth in China(HKUST)

Working Experience

Nextas Technology

Guangdong, China

ASSISTANT SOFTWARE ENGINEER, TECHNOLOGY & OPERATIONS

Jul. 2022 - Sep. 2022

- Assisted in the maintenance and upgrade of a brake control software for an industrial machine
- Led the writing of a document on machine flow control, and wrote a machine flow control program in C# based on this document

Singapore Armed Forces Medical Corps

Singapore

COMBAT MEDIC & OPERATION I/C

Sep. 2019 - Jul. 2020

- Organized medical unit coordination and deployment during recruit graduation ceremonies, Joint-Forces exercises etc
- Directed the temporary fever clinic of PTMC, planned medics' schedule carefully to keep the morale high under human resource shortage situation, and organized PCR tests during the COVID-19 period
- Did 100+ solo cover mission to support field operation and did 50+ casualties evacuation from Pulau Tekong island to Changi General Hospital

Extracurricular Activity

Food sharing in Karlshof

California, United States

COMMUNITY WORKER

Sep. 2023 - PRESENT

- Collected excess food from local shops, schools, and parties. Kept the food until the majority of the student community is able to collect it(usually in the evening and night)
- Distributed the food around Karlshof(our student residency) for free. Reused all the containers for the next round

University of California, Irvine

California, United States

RESEARCH ASSISTANT

Jun. 2023 - Sep.2023

- Incorporated natural language processing and social engineering to fine-tune the Bloom, a large language model (LLM) open sourced by Big-science, and iterate on the model to recognize the sentiment of a given text and identify phishing emails
- revealed that using a self-customized Bloom 3b or 7b model, trained with a smaller dataset, could yield better generalization ability. This approach achieved an impressive 97.99% accuracy and 90.07% precision rate in detecting phishing emails.

Illustrated History of Beijing Transportation

Beijing, China

EDITORS & FIELDWORKERS

Feb. 2023 - PRESENT

- Worked on the editorial board,primarily handled external liaison
- Conducted field research in Huairou and Miyun, Beijing, deeply integrated into the society

BJTU Blockchain Association

CORE MEMBER & PRESIDENT AT 2022 & 2023

Beijing, China

Sep. 2020 - PRESENT

- Accumulated knowledge related to blockchain technology and deepened my understanding of decentralized systems
- Actively pursued school-enterprise cooperation and collaborated with Baidu Xuperchain and WeBank FISCO BCOS to develop systems
- Conducted popular science education on campus about blockchain technology, and held a total of five popular science lectures and activities

Organization Department of Communist Youth League of China of BJTUCIT

CORE MEMBER & MINISTER AT 2022

Beijing, China

Sep. 2020 - Sep. 2022

- Developed my office skills, event organizing skills, and leadership qualities through administrative work
- Organized team members to conduct critical assessments of excellent youth league branches
- Accumulated organizational experience in working with superiors and subordinates, honed communication and coordination skills, and became better equipped to address major issues

Honors & Awards

INTERNATIONAL

2019 **Finallist**, SAF Day Parade

Singapore

DOMESTIC

2023 **1st Award**, "Thinking from the Origin and Going Away" Undergraduate Study Abroad Scholarship

Beijing, China

2023 **Honorable Mention**, Mathematical Contest In Modeling

Beijing, China

2023 **1st Award & 2nd Award**, BJTU Literary Cup

Beijing, China

2022 **The 11th China International Civil Servants Capacity Building Program**, United Nations Association of China

Shanghai, China

2022 **Scholarships for Hong Kong, Macau, Taiwan and Overseas Chinese**, BJTU

Beijing, China

2022 **Scholarship for Social Work Excellence**, BJTU

Beijing, China

2022 **1st Award**, Mathematical Modeling Competition of BJTU

Beijing, China

2021 **Scholarships for Hong Kong, Macau, Taiwan and Overseas Chinese**, BJTU

Beijing, China

2021 **2nd Award**, College Student Humanities Knowledge Competition of Beijing

Beijing, China

2021 **Finalist**, Outstanding Youth League leaders of BJTU

Beijing, China

2020 **2nd Award**, The 10th National Red Tourism Creative Planning Competition for University Students

Beijing, China

Projects

VOStyle

Beijing, China

VIDEO-ORIENTED PIXEL INTELLIGENT ANNOTATION SYSTEM

Jul. 2022 - Aug. 2022 & Dec. 2022

- <https://github.com/cogitoergosum666/VOStyle>
- Led a 3-member team to integrate two state-of-the-art neural networks, IOG(From CVPR2022) and CFBI(From IEEE2000), to facilitate the images/videos object segmentation
- Spearheaded 10+ original GUIs using PyQt5, enabling seamless accessibility for the general public; implemented the backend using Django (Python) to handle user requests
- Hosted daily team stand-up meetings to track the project's progress and promote alignment within the team; proactively guided teammates through ambiguity and technical challenge

School "Sanshui" Software

Beijing, China

APPLICATION OF COMPLIANCE BLOCKCHAIN CREDIT DEPOSIT APPLICATION PLATFORM PROJECT FOR THE CAMPUS WATER

Mar. 2022 - Sep. 2023

DISPENSER/WASHING MACHINE/AC DEVICE

- Launched a blockchain-based deposit system for campus small and medium businesses (SMBs), such as water dispensers, washing machines, and air conditioners, providing reliable transaction records for SMBs to facilitate their financing process
- Directed a 3-member squad to develop the MVP using Vue.js, Hyperledger, Xuperchain(from Baidu, Inc) and FISCO BCOS(from Webank); researched the financing and leasing needs of on-campus SMBs and analyzed their business models and pain points
- Integrated our original user credit scoring model and washing machine's energy-saving model based on several authoritative academic researches as a smart contract on the blockchain using Solidity, providing decentralized, secure access to user financial records
- Obtained second prize (province level) in the 2022 Chinese National Innovation and Entrepreneurship Training program for the MVP developed and presented the MVP to a diverse group of investors, securing \$1,000 in seed funding

WeChat-Cleanmaster

Beijing, China

A USER-FRIENDLY AND EASY-TO-USE RUBBISH AND CACHE CLEANING TOOL FOR THE NEW VERSION OF WECHAT DESKTOP

Oct. 2022

- <https://github.com/cogitoergosum666/Wechat-Cleanmaster>
- Light-weight but strong command-line tool for all type of WeChat cache and rubbish
- A practical example for my ability of identify and solve problem