

# ABU SAYEM MD HABIBULLAH

Xidian University (西安电子科技大学), 710071, Xi'an, Shaanxi, China

<https://habib.scholariest.com> | asmdhabibullah@yahoo.com | +8613259867550



## Education

### Doctor of Philosophy (PhD), Computer Science and Technology

School of Computer Science and Technology, Xidian University

Research Direction: Financial Deep Reinforcement Learning (FinDRL) for Stock Trading and Portfolio Management.

Sep 2025 – Ongoing

Xi'an, China

### Master of Engineering (MEng), Computer Science and Technology

School of Computer Science and Technology, Xidian University

GPA: 91.24% (in Degree)

Thesis Title: Stock Market Price Forecasting Using Deep Reinforcement Learning Techniques (FinDRL Approach)

Sep 2022 – Jul 2025

Xi'an, China

### Bachelor of Engineering (BE.), Computer Science and Technology

School of Information Science and Engineering, Yunnan University

GPA: 83% (in Average)

Thesis: Cross Border E-Commerce Solution (B2B & B2C)

Sep 2018 – Jul 2022

Kunming, China

## Experience

### Remote - Software Engineer | ML Engineer | Autofficina Internazionale s.a.s

May 2020 – Ongoing

- Developed SaaS platform with appointment management, marketing tools, page builder, URL shortener, and telematics, improving storage efficiency by 33.33%.
- Increased customer satisfaction by 10% using a Deep Neural Networks model for vehicle solutions and enhanced server query response by 15% with microservices, DCS, and CI/CD practices.

### Remote - IT Team Instructor | BreezeBangladesh LTD

Jan 2021 – Apr 2023

- I offered technical assistance to the IT team beyond established working hours to utilize my expertise to troubleshoot and resolve customer issues.
- Develop customer trust by evaluating the criteria and optimizing customer guidance. Using CI/CD, increasing the development team's speed by 20%.

### Web Application Developer & SEO – Teacher | Bright Host IT Institute

Jun 2017 - Aug 2018

- Proficient in creating responsive, SEO-friendly web designs, optimizing speed, performance, mobile-friendliness, and implementing technical SEO (structured data, XML sitemaps) for improved rankings and site crawlability.
- Skilled in training teams on keyword research, on-page SEO, content optimization, using analytics tools to refine strategies, and ensuring secure coding practices while maintaining SEO integrity.

## Publication

- An empirical study on corporate social responsibility, environmental regulation and financial performance-Based on heavy pollution industry - ISSN: 2309-7892 (Online), 2519-5530 (Print), Volume: 10, Issue: 1, Page: 06–17, January-June 2022
- Research on the Impact of Fiscal and Tax Policies and Social Responsibility on the Financial Performance of Listed Chinese Agricultural Companies - Volume 5, Issue 2 (May 2021), P.P.87-101, ISSN: 2521-0793
- LDCS: Accurate and Efficient LDoS Attack Detection Based on Cyclic Sketch (2<sup>nd</sup> Author) - Submitted
- FinDRL: Financial Deep Reinforcement Learning: A Perfect Way to Manage Stock Trading Portfolios – Submitted
- Deep Reinforcement Learning for Neuroadaptive Driver Vigilance Regulation - Ongoing

## Research Experience

### Research Assistant (National Key Lab: Institute of Big Data and Visual Intelligence, XDU)

Oct 2022 – Jul 2025

- Optimization Algorithm, Portfolio Management, Dynamic Market Prediction, Data-Driven Methods, Artificial Intelligence, Financial Deep Reinforcement Learning (FinDRL)
- Research Title: Stock Market Price Forecasting Using Deep Reinforcement Learning Techniques (FinDRL Approach)
- Supervisor: Prof. Dr. Wang Shuzhen**

## **Undergraduate Research Work at Yunnan University (YNU)**

**Feb 2022 - Jul 2022**

- Thesis Title: Cross Border E-Commerce Solution (B2B & B2C)
- Integrates supply chain, and government logistics, enabling efficient product delivery with robust Microservice architecture.
- Tech: Docker, Kubernetes, MongoDB, Redis, PostgreSQL, TS, and Python.
- **Supervisor: Prof. Dr. Xiaobing Zhou**

## **Project Work**

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### **Develop: Vehicle Automation System and Customer Relation Management (CRM)**

May 2021 – Ongoing

- Associated with Autofficina Internazionale s.a.s
- Stack: Docker, Kubernetes, Heroku, AWS, MongoDB, Redis, PostgreSQL, NextJs, and TensorFlow.

### **China Bangladesh E-commerce integrating transportation and marketing**

May 2022

- Associated with Yunnan University

### **China-Bangladesh e-commerce mobile platform integrated with transportation and sales**

Jan 2022

- Associated with Yunnan University

### **Smart Charging Station Architectural Design and Development**

2021 – 2022(7<sup>th</sup> Semester)

- Associated with Yunnan University
- Stack: ReactJS, Arduino (ESP32), C++, and PostgreSQL

## **Research Interest**

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- Quantitative Finance
- Financial DRL Technology
- Machine Learning (DL/DRL)
- Computational Data Science
- Optimization Techniques

## **Tech Skills**

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- Programming Languages: C++, Python, TS
- Frameworks: NodeJs, ReactJs, TensorFlow, PyTorch, MLflow, Docker, Kubernetes, Kubeflow
- Concepts: AWS, HTTP, and gRPC Protocol, and Deep Learning
- Office and Document Applications: Microsoft Office, LaTex
- Soft Skills: Problem-Solving, Project Management, Leadership, Adaptability, Time Management

## **Certifications**

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- Complete Machine Learning & Data Science Bootcamp-2022 (Issued by Udemy) Mar 2022
- Algorithms & Data Structures (Issued by Udemy) May 2021
- Design Patterns in Python (Issued by Udemy) May 2021
- Microservices with Node JS and React (Issued by Udemy) Mar 2021

## **Extracurricular Activities**

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- Genetic Epidemiology of Pain - Dr Maxim Freydin  
- Hosted By: Paul A, Manuel Corpas and Mr Mustafa Ghafouri & Organized by Meetup Nov 29, 2024
- Silicon Valley Business Networking (Online)  
- Hosted By: Rob & Organized by Meetup Oct 22, 2024
- Solve Problems using Reinforcement Learning 强化学习  
- Hosted By: Jennifer & Organized by Meetup Dec 31, 2023
- 20, 21, 22 - Yunnan University "Cloud Cup" Volleyball League (First Prize)  
- Sponsor: Yunnan University Sports Committee & Organized by the Youth League Committee of the school and May (2020, 2021, 2022)  
the School of Physical Education Co-organized by: Yunnan University Volleyball Association

## Achievement & Award

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- Provincial Government (Huashan) Scholarship (Full Funded)  
- Scholarship issued by Xidian University (XDU) Sep 2022 – Jul 2025
- Officer: Sports Department - International Student Union, Xidian University Nov 2023
- National Undergraduate E-commerce "Innovation, Creativity and Entrepreneurship"  
- Position 12<sup>th</sup>, issued by Yunnan University May 2022
- Sino-Bangladesh Express - China-Bangladesh e-commerce mobile platform integrated with transportation and sales  
- 12th National College Competition Student “Mobile App - E-commerce Innovation”, issued by Yunnan University May 2022

## Language & Test Scores

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Bengali: Native, English: Professional, Chines: Intermediate

## Reference

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### Prof. Dr. Wang Shuzhen

School of Computer Science and Technology  
Xidian University, Xi'an, China  
E-mail: shuzhenwang@xidian.edu.cn

### Associate Prof. Wang Jin

School of Information Science and Engineering  
Yunnan University, Kunming, P.R.C.  
E-mail: jing.wang.guan@ynu.edu.cn