

# ABU SAYEM MD HABIBULLAH

**Xi'an Jiaotong University, 710079, Xi'an, Shaanxi, PRC.**

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## Education

### Doctor of Philosophy (PhD), Biomedical Engineering

School of Computer Science and Technology, Xi'an Jiaotong University

*Research Direction: Working with EEG-based Personalized Neurofeedback Systems Using DRL Technology*

**Sep 2025 – Jul 2029**

*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
- 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 (State Key Lab: Institute of Big Data and Visual Intelligence, Xidian University). **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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- Data Science
- Bioinformatics
- Machine Learning (DL/DRL) in Finance
- Computational Genomic
- Optimization Techniques

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

- Officer: Sports Department - International Student Union, Xidian University Nov 2023
- National Undergraduate E-commerce "Innovation, Creativity and Entrepreneurship" May 2022
  - Position 12<sup>th</sup>, issued by Yunnan University
- Sino-Bangladesh Express - China-Bangladesh e-commerce mobile platform integrated with transportation and sales May 2022
  - 12th National College Competition Student “Mobile App - E-commerce Innovation”, issued by Yunnan University

## Language & Test Scores

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Bengali: Native, English: Professional, Chines: Conversational

## 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**

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Yunnan University, Kunming, P.R.C.  
E-mail: jing.wang.guan@ynu.edu.cn