Yan Minghao(严明豪)

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EDUCATION BACKGROUND

09/2021-06/2025 Northeastern University (**Junior Undergraduate Now**)

- Degree: Bachelor of Engineering
- Major: Intelligent Medical Engineering
- GPA: **4.0011/5.00**
- English Proficiency: IELTS 7.0
- Major Courses: Discrete Mathematics, Linear Algebra, Data Structures, Digital Signal Processing, Basic Medicine, Software Engineering, Machine Learning, Deep Learning, Brain Science, and Brain-Inspired Machine Learning.

RESEARCH OUTPUTS

- Paper: Blockchain Empowerment in Healthcare: A Survey
  Journal: ACM COMPUTING SURVEYS
  Status: Under Review
- Paper: A Survey on Medical AI Data Security: State-of-the-Art and Research Challenges
  Journal: IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING
  Status: Under Review
- Patent: A Blockchain Based Drug Traceability System and An Access Optimization Method
  Patent Type: Invention Patent

RESEARCH EXPERIENCES

1. 10/2021-08/2022:

Research Project: Blockchain Based Drug Traceability System

Main work:

- Studied techniques related to blockchain.
- Developing systems on the Fabric platform.
- Wrote and submitted an invention patent.

2. 10/2022-08/2023:

Research Project: Blockchain in Healthcare Survey

Main work:

- Studied content related to the application of blockchain in the field of healthcare.
- Experimented with some traceability methods using a Fabric based blockchain platform.
- Wrote and submitted a review article for publication.

3. 09/2023-06/2024 :

Research Project: Medical AI Data Security Survey

Main work:

- Studied content related to the interpretability of artificial intelligence and secure computing.
- Tested various AI explainability methods and data protection measures.
- Wrote and submitted a review article for publication.

PROJECT DEVELOPMENT EXPERIENCES

1. 06/2022-07/2022:

Project Name: Prognostic evaluation of breast cancer patients based on machine learning

Main Work:

- Learned various prognostic assessment models, such as the Cox assessment model.
- Train a machine learning model using real hospital data to predict postoperative patient survival time.

2. 05/2024-06/2024:

Project name: Classification of skin diseases based on deep learning

Main Work:

- Learn and review deep learning networks for various types of image recognition.
- Train various networks using the ISIC 2019 dataset for prediction tasks.

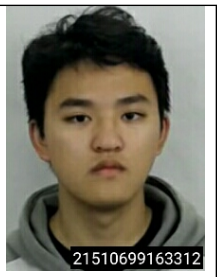
AWARDS AND HONOURS

- (National Level) National Olympiad in Informatics(NOI) Bronze Medal, 2019
- (National Level) The 14th Lanqiao Cup Software Design Competition C/C++Programming Design Group National Second Prize, 2023
- (National Level) The 15th Lanqiao Cup Software Design Competition C/C++Programming Design Group National Third Prize, 2024
- (School Level) Second Class Scholarship of Northeastern University, 2023
- (School Level) Third class scholarship of Northeastern University, 2022

ADDITIONAL INFORMATION

- Languages: English (Fluent, IELTS 7.0), Chinese (Native)
- Skill: C/C++, Python, MATLAB, SPSS, CUDA, PyTorch, Linux
- Hobbies: Bass, Basketball, Algorithm competition

Academic Transcript of Northeastern University

Name	Yan Minghao	Student ID	20217357	
Sex	male	Duration of Schooling	4years	
School	College of Medicine and Biological Information Engineering	Admission Date	2021-9	
Major	Intelligent Medicine Engineering	Expected Graduation Date	2025-7	

No.	Course	Semester	Credits	Grades	Course Type
1	C Programming Language (Science and engineering)	2021-2022-1	3	99	OptionalCourse
2	Military training	2021-2022-1	2	C	DegreeCourse
3	Entrance education	2021-2022-1	1	P	DegreeCourse
4	Military Theory	2021-2022-1	2	94	DegreeCourse
5	Advanced Mathematics①(I)	2021-2022-1	5	83	DegreeCourse
6	Physical Education Ⅰ	2021-2022-1	0.75	76	DegreeCourse
7	College English(1)	2021-2022-1	3.5	89	DegreeCourse
8	Value,Morality and Rule of Law	2021-2022-1	3	B	DegreeCourse
9	Frontier of intelligent medical engineering	2021-2022-1	1	B	DegreeCourse
10	Health Education	2021-2022-1	1	88	DegreeCourse
11	Mental Health Education of College Students (1)	2021-2022-1	1	A	DegreeCourse
12	Human Anatomy & Physiology	2021-2022-1	3.5	80	DegreeCourse
13	College Physics(Engineering)(I)	2021-2022-2	4	88	DegreeCourse
14	Outline of Modern Chinese History	2021-2022-2	3	B	DegreeCourse
15	Designed Centered Learning	2021-2022-2	3	A	DegreeCourse
16	Innovative Approach in Engineering Technology	2021-2022-2	2	B	OptionalCourse
17	Entrepreneurial foundation	2021-2022-2	2	93	DegreeCourse
18	Physical Education Ⅱ	2021-2022-2	0.75	80	DegreeCourse
19	Situation and Policy (1)	2021-2022-2	0.5	P	DegreeCourse
20	Advanced Mathematics①(II)	2021-2022-2	5	68	DegreeCourse
21	C&C++ Advanced Programming	2021-2022-2	3	94	DegreeCourse
22	College English(2)	2021-2022-2	3	93	DegreeCourse
23	Programming Practice	2021-2022-2	1	A	DegreeCourse
24	Linear Algebra	2021-2022-2	3	91	DegreeCourse
25	Biochemistry and molecular biology	2021-2022-2	2.5	83	DegreeCourse
26	Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era	2022-2023-1	3	A	DegreeCourse
27	null	2022-2023-1	2	93	OptionalCourse
28	College English(3)	2022-2023-1	3.5	94	DegreeCourse
29	College Physics(Engineering)(II)	2022-2023-1	4	92	DegreeCourse
30	Discrete Mathematics	2022-2023-1	3	98	DegreeCourse
31	Philosophical Principle of Marxism	2022-2023-1	3	89	DegreeCourse
32	Follow me learning music	2022-2023-1	2	A	OptionalCourse
33	College Physics Experiment(Engineering)(I)	2022-2023-1	1	B	DegreeCourse
34	Probability Theory and Mathematical Statistics	2022-2023-1	3.5	90	DegreeCourse
35	Physical Education Ⅲ	2022-2023-1	0.75	93	DegreeCourse
36	Algorithm Design and Analysis	2022-2023-1	2.25	92	OptionalCourse
37	Medical Artificial Intelligence Technology and Application	2022-2023-2	2	97	OptionalCourse
38	The History of Reform and Opening Up	2022-2023-2	1	A	OptionalCourse
39	Digital Signal Processing	2022-2023-2	2	99	DegreeCourse
40	Introduction to data science	2022-2023-2	2	95	OptionalCourse
41	Artificial intelligence	2022-2023-2	2	94	DegreeCourse
42	Biomaterials (English)	2022-2023-2	3	96	DegreeCourse
43	Physical Education Ⅳ	2022-2023-2	0.75	85	DegreeCourse
44	Signal and Linear System	2022-2023-2	2	95	DegreeCourse
45	Situation and Policy (2)	2022-2023-2	0.5	P	DegreeCourse
46	Histology and embryology	2022-2023-2	1.75	C	DegreeCourse

验证网址：
https://ehall.neu.edu.cn/infoplus/form/e7067577/view/0046130dd56a89cf60408cd3602ddbd7

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47	College Physics Experiment(Engineering)(II)	2022-2023-2	0.75	B	DegreeCourse
48	Clinical Medicine Cognition Practice	2022-2023-2	3	A	DegreeCourse
49	Immunology	2022-2023-2	1.75	A	OptionalCourse
50	Data Structure	2022-2023-2	2.5	97	DegreeCourse
51	Medical Statistics and Clinical Decision Support	2023-2024-1	2	99	DegreeCourse
52	English-Chinese Translation	2023-2024-1	2	A	OptionalCourse
53	The Introduction of Big Data Algorithms(Bilingual)	2023-2024-1	2	94	OptionalCourse
54	Software Engineering	2023-2024-1	2.75	94	OptionalCourse
55	Machine Learning	2023-2024-1	2.5	93	DegreeCourse
56	Database Principle(Bilingual)	2023-2024-1	2.75	91	DegreeCourse
57	Mao's Thought and the theoretical system of socialism with Chinese characteristics Introduction	2023-2024-1	4	93	DegreeCourse
58	Situation and Policy (3)	2023-2024-2	0.5	P	DegreeCourse
59	Intelligent medical algorithm design	2023-2024-2	1	A	DegreeCourse

Title of Graduation Design(Thesis):

GPA	4.0011	Note	1.Hundred mark system:(0-100) 2.Two-grade marking system:P(80),F(0) 3.Five-grade marking system:A(95),B(85),C(75),D(65),F(0) 4.For more details on GPA calculation see:http//aao.neu.edu.cn/ 5.The grade marked with an asterisk(△) indicates that the course has been repeated

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