

NANJING UNIVERSITY OF POSTS & TELECOMMUNICATIONS STUDENT ACADEMIC RECORD (ENGLISH TRANSLATION)

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Name	CAI Yihao		Date of Birth	1998/03/02		Date of Admission	2016/09/01		Department	Bell Honors School					
Sex	male	Student number	Q16010228	Schooling	4 years	Date of Graduation			Specialty	cience and Engineering Intensification Class(Communication Engineering)					
Course Title					Credits	Record	Exam Date	Course Title					Credits	Record	Exam Date
Psychological Health Course of College Students					0.5	83	2017-01	College English III					3.0	86	2017-01
College Chinese					2.0	81	2017-01	Advanced Language Programming A					3.0	90	2017-01
Mathematical Analysis (I)					6.0	94	2017-01	Practice of Outline of Chinese Modern History					0.5	B	2017-01
Military Theory					1.0	81	2017-01	Military Training					1.0	86	2017-01
PE I					1.0	80	2017-01	Introduction of Information Science					1.0	87	2017-01
Situation and Policy I					1.0	B	2017-01	Base of Drawing & Computer Drafting					2.0	79	2017-01
The Outline of Chinese Modern History					1.5	92	2017-01	College Physics (I)					4.0	90	2017-07
College English IV					3.0	88	2017-07	Fundamental of Circuit Analysis A					4.0	95	2017-07
Electronic Practice					1.0	C	2017-07	Methods of Advanced Mathematics					3.0	A	2017-07
Mathematical Analysis (II)					6.0	97	2017-07	Basic Examining to Microcomputer Application					0.0	P	2017-07
Metalworking Practice					1.0	B	2017-07	Moral Cultivation and Basic Law					2.0	94	2017-07
Practice of Moral Cultivation and Legal Basis					1.0	B	2017-07	Physical Education II					1.0	86	2017-07
Appreciation of Foreign Literature					2.0	82	2017-07	Experimental Physics (I)					1.5	85	2017-07
Linear Algebra and Analytic Geometry					3.0	92	2017-07	Situation & Policy II					1.0	A	2017-07
Programming Design					2.0	C	2018-01	Entrepreneurship Market Research and Development					2.0	75	2018-01
College Physics (II)					3.0	90	2018-01	Experiment in Electrical Technology & Electrical Engineering (I)					3.0	B	2018-01
Introduction to Fundamental Principle of Marxist					2.0	90	2018-01	Practice of Introduction to Basic Principle of Marxist					1.0	A	2018-01
Analog Electronic Circuits					4.0	88	2018-01	Data Structure					3.5	79	2018-01
Mathematical Experiments B					1.0	B	2018-01	PE III					1.0	95	2018-01
Experimental Physics (II)					1.5	83	2018-01	Signals and Systems A					4.0	80	2018-01
Music Appreciation					2.0	69	2018-01	Comprehensive English I-B					2.0	85	2018-01
Innovation and Entrepreneurship Management B					2.0	89	2018-07	Experiment in Electrical Technology & Electrical Engineering (II)					3.0	C	2018-07
Probability and Stochastic Process					4.0	90	2018-07	America Education and Technical Innovation					2.0	99	2018-07
Cognitive Practice					0.5	A	2018-07	Digital Circuits and Logic Designs A					4.0	82	2018-07
Physical Education IV					1.0	96	2018-07	Microcomputer Principle and Interface Technology					3.5	80	2018-07
Behavioral psychology					2.0	65	2018-07	Comprehensive English II-B					2.0	86	2018-07
Electromagnetic Field and Transmission Theory(B)					3.0	D	2019-01	Television Theory and Digital Video					2.0	61	2019-01
Curriculum Design of Electronic Circuits					2.0	D	2019-01	Computer Networks					3.5	83	2019-01
Social Practice of Introduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics					1.5	B	2019-01	Introduction to Basic Principle of the Chinese Characteristic socialism					4.5	70	2019-01
Communication Electronic Circuits Experiment					1.0	B	2019-01	Communication Electronic Circuit					3.0	63	2019-01
Communication Principles A					5.0	86	2019-01	The Basis of Modern Management Science					2.0	87	2019-01
Career Development and Employment Guidance					1.0	92	2019-01	Listening Improvement for Harvard Positive psychology and MIT Computer Programming Open courseware					2.0	B	2019-07
Linux Programming					2.0	89	2019-07	Optical Fiber Communication System					2.0	70	2019-07
Software Design					2.0	A	2019-07	Digital Signal Processing A (Bilingual)					3.5	82	2019-07
Analysis and Design of Algorithms					3.0	75	2019-07	Wireless Communications Principles(Bilingual)					2.0	70	2019-07
Total Credits in All Academic Years		162.50	Academic Degree		——			GPA		3.38		Official Seal			
Minor in		-----	Academic Degree												



Note:

- 1.System I(examination):One Hundred Scores(Less Than 60 Fail) 2.M(Exempt from course work)
- 3.System II(non-examination):A(95),B(85),C(75),D(65),F(0-59) 4.A few course are graded by P(pass) or F(Failure)
- 5.Scan code to verify the authenticity

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Date:2019-12-02

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Yihao CAI

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Nanjing University of Posts and Telecommunications, Nanjing, Jiangsu, China

EDUCATION

Nanjing University of Post and Telecommunication

Sep. 2016 – Jun. 2020

- **Graduating Faculty:** Bell Honors School
- **Major:** Special Talents Program (Telecommunications Engineering)
- **GPA:** 3.4/5.0 (84/100 pts with top 15%)
- **Programming Languages:** Assembly, C/C++, Go, HTML5/CSS, JavaScript, Matlab, Python, Shell/Tcl, SQL, amongst others
- **Relevant Coursework:** Engineering Mathematical Analysis, Circuit Analysis Fundamentals, Signals and Systems, Simulated Circuits, Digital Circuits, Telecommunications Principles, Digital Telecommunications Circuits, Data Structure, Arithmetic and Design, Linux Programming, Micro Computer Principles, Satellite Telecommunication, Assembly Language

RESEARCH EXPERIENCE

National Science and Technology Innovation Training Program for University Students – *Sign Language Identification of Isolated Words based on Kinect V2*

Sep. 2018 – Jan. 2020

- In-depth research of Tensorflow, Keras and other machine learning model frameworks
- Extraction of sign language pre-training features (C++ and Python)
- Relevant image-processing calculations and open CV interface applications
- Remote server connection training model, resolving adjustment and relevant problems

University Automation Science Laboratory Robotics Research Project – 2 years

Jan. 2017 – Dec. 2018

- Familiarity with the software package translations and CMake translation framework of Ubuntu platform
- Mastery and operation of Robot Operation System as well as C++ and Python
- Ability to manipulate robots, such as TurtleBot and Dobot, as introduced by the laboratory
- Ability to operate Halcon software and ROS to actualize hand-eye coordination and item capture functions of the robotic arm

Participant in Summer Mathematical Modelling Application Activity

Jun. 2018 – Nov. 2018

- Master common mathematical models and algorithms like regression model, correlation analysis and grey prediction, etc.
- Responsible for using Matlab and code to create mathematical models applied to daily life and improve the parameters
- Obtain a problem and teamwork with other members to write up a thesis explaining the whole working process

An Intelligent Housekeeper System demo design based on Raspberry Pi using C++

Feb. 2020 – May. 2020

- The creation of a master controlling system used for scenarios where people deal with daily routines at home
- The deployment of wires on bread board to realize the hardware part for whole project
- Coding for different modules using C++ and a user-friendly GUI design with Qt software under Raspberry Pi system

EXTRA-CURRICULAR ACTIVITIES

- Member of University Robotics Society
Team Leader of the Robotics Arm Team, organizing instruction lessons and participating in national and provincial competition and projects
- Member of University Science Association (Electronics Division)
- Member of University Youth Volunteering Association
- Participant in Academic Exchange Program of Bell Honor School to Stanford and U.C. Berkeley
- Captain of Soccer Team of Bell Honors School
- Player on Basketball Team of Bell Honors School

HONORS AND AWARDS

- Faculty Honors: Faculty Academic Excellence Scholarship, Civilian Award **2016 - 2017**
- First Prize in Jiangsu Provincial University Advanced Mathematics Contest **2017**
- Third Prize in 2018 China National Service Robot Competition **2018**
- Third Prize in Jiangsu Provincial Mathematics Modelling Competition **2018**
- First Prize in 2018 National University Artificial Intelligence Internet Innovation Competition **2018**
- Paper published on IWPR 2020 with DOI <http://dx.doi.org/10.1117/12.2574424> **2020**

WORKING EXPERIENCE

iWhaleCloud Computation Technology Co., Ltd

Jul. 2020 – Mar. 2021

Delivery Engineer, Department of International & Operation Center

- The deployment of service modules on Linux server, which includes the framework of Tomcat, Nginx, Dubbo and Zookeeper, etc. Simulate socket procedure to send packet and use tcpdump to analyse them by Wireshark if necessary
- Master the Oracle syntax and statement as well as the stored procedure to interact with program written by Java
- Write Shell script and make up data to test all the business cases automatically and locate the problems where bug exists

Hillstone Networks Co., Ltd

Apr. 2021 – Aug. 2021

Software Development Engineer, Department of Cloud Security

- Be familiar with Docker, including command and interaction among internal units such as dockerd, containerd, and runC, etc. Master concepts of Cloud Container, Virtualization, and use tool Kubernetes to manage the cloud clusters
- Understand the security mechanism applied on Linux including SELinux, AppArmor, IPC namespace and set up the profile for the hosts to preventing the container attack within. Use eBPF to make kernel more secure where flow filter works
- Write up codes using language Go for the Container Security Product HSCA (HillStone Cloud Armour), and handle the correspondence for each microservice module inside with common RPC framework like Http, Restful, gRPC, etc.