

# Yin Daheng

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## Education

### Jiangnan University

Major in Internet of Things  
2016.09~2020.09

### Cambridge University

Summer School  
Global Innovation and  
Leadership  
2017.08~2017.09

## Links

WebSite:

**yindaheng98.top:8888**

Github:yindaheng98

## Skills

### Mathematic

(Course results, out of 100)

Linear Algebra	92
Further Mathematics I	96
Further Mathematics II	97
Probability & Statistics	98
Integral Transforms	100
Discrete Mathematics	94

### English

IELTS	6.5
CET6	576

### Programming

(Lines of code)

Latex	14142
Python	9808
matlab	6216
Java	6030
Javascript	3873
HTML	3816
PHP	3646
C#	1834

### Parallel Programming

Familiar  
Athread(Sunway TaihuLight) •  
SIMD  
Knowledge  
CUDA • MPI

### Cloud Computing

Familiar  
Docker • Docker-compose  
Knowledge  
Ubuntu Server

## Research & Development

### Develop new comprehensive condition assessment tool for uremic patients based on bioimpedance analysis and data mining

2018.12~currently | Jiangnan University/Department of Nephrology, Wuxi People's Hospital

- Project background: current bioimpedance analysis method is inaccurate; assay in comprehensive condition assessment for uremic patients is expensive and time consuming
- Project content: mining clinical data, reveal the relationship between bioimpedance and patient's condition, develop a comprehensive condition assessment machine

### Mlpack migration on Sunway Platform

2019.04~currently | Supercomputer Club, JNU/Software department, Sunway R&D Group

- Darknet has been migrated, mlpack will be migrated next
- Current outcomes: finished a textbook for club member training during migration

## Projects

### ExpertField 2019.03 | Leader

- Aiming at field data collection, both artificial(Android App) and automatic(STM32)
- 9 cooperators, nearly 10,000 lines of code, a complete IoT system
- Will be deployed in Institute of Plant Physiology & Ecology, CAS
- A fast deployable combined microservice system based on docker-compose

### WebSiteAnalysisKit 2018.12 | Cooperator

- Patent applied: A user behavior analysis platform based on cloud computing and big data analysis
- Use JavaScript for user behavior capture, use Python for user behavior analysis, use Hadoop for user hierarchical clustering, use Echarts for visualization

### Calendars 2017.10 | Leader

- A cross-platform web application that integrates daily affairs, curriculum, achievement management, and project planning
- 5 cooperators, 4000 lines of code, running on 2 aliyun servers and 1 physical server
- Implemented multi-person instant process graph editing and a high-flow curriculum query component using Redis blocking queue and long polling

## Awards

2019.05	National Outsourcing Innovation Competition	3rd Prize
2019.04	COMAP's Mathematical Contest in Modeling	S Prize
2018.11	Jiangnan University Academic Scholarship(2016-2017)	1st Prize
2018.09	National College Mathematical Contest in Modeling	2nd Prize(National)
2017.11	9th National College Mathematical Contest	2nd Prize(Provincial)
2017.11	National Scholarship(2016-2017)	
2017.05	14th Jiangsu College Mathematical Contest	1st Prize
2017.03	Admitted by the Honor School, Jiangnan University	

## Personal Statement

### Research interest

- Applied: Cloud computing, Parallel computing, Medical data mining
- Theoretical: Machine Learning Algorithm

### Personal qualities

- After two mathematical contests and two mathematical contests in modeling, I have a good mathematical abstraction and modeling ability
- After 35 thousand lines of coding, I have good coding and architectural ability
- Hosted 3 development projects and cooperated variety of projects, I have a good spirit of cooperation and leadership