Yin Daheng

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Education

Jiangnan University
Internet of Things
2016.09∼2020.09

Cambridge University
Summer School
Global Innovation and Leaderdship
2017.08∼2017.09

Links

WebSite:**yindaheng98.top**
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
CET4	543

Programming
(Lines of code)

Python	8577
Latex	8036
matlab	7265
Java	6024
HTML	3758
Javascript	3474
PHP	2915
C#	1834

Aritificial Intelligence
Familiar
Pytorch
Knowledge
Tensorflow • sklearn

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

Cloud Computing
Familiar
Docker • Docker-compose
Knowledge
Ubuntu Server

Research & Development

Mlpack migration on Sunway Platfrom
2019.04∼currently | Supercomputer Club, JNU/Software department, Sunway R&D Group
- Plays a role in kernels migration and club member training
- Current results: A textbook for club member training

Develop new evaluation methods for over-hydration based on bioimpedance analysis and data mining
2018.12∼currently | Jiangnan University/Department of Nephrology, Wuxi People's Hospital
- Aims to improve performance of BCM-based evaluation of over-hydration with data mining methods. Project plan:
  - Analyse patient's body composition data and improve BCM-based over-hydration evaluation with bioimpedance vector analysis
  - Predict the short-term health status of patients with new over-hydration evaluation method
  - Extend the prediction of the patient's health status to the end event period, providing a reference for the development of long-term treatment options
- Current progress: Gathering preliminary statistics results, preparing for first paper

Projects

ExpertField 2019.03∼currently
- Aiming at field data collection, both artificial and automatic
- 9 cooperators, built a complete IoT system
- Will be deployed in Institute of Plant Physiology & Ecology, CAS
- A fast deployable combined microservice system based on Docker and YAML parser

GANomaly-Tensorflow 2018.10∼2018.11
- Implement GANomaly with Tensorflow, for camera abnormality judgment
- Use Opencv and Tensorflow to convert video format to tfrecord dataset

Calendars 2017.10∼2017.12
- A cross-platform web application that integrates daily affairs, curriculum, achievement management, and project planning
- 5 cooperators, 4000 lines of code
- 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
- Theoretical: Machine Learning Algorithm, Brain inspired Computing
- Application: Mining on medical data, Cloud computing in IoT System

Personal qualities
- After two mathematical contests and two mathematical contests in modeling, I have a good mathematical abstraction and modeling ability
- After 30,000 lines of coding, I have good coding and architecture ability