

# Shukai Ni

WEB DEVELOPER · DEEP LEARNING EXPERT

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“The Electronic Divination Machine”

## Education

### Jiangsu Tianyi High School

ADVANCED PLACEMENT

- GPA 4.28
- SAT 1520
- TOEFL 111

Wuxi, China

Sep. 2015 - May. 2018

### Minerva Schools at KGI

COMPUTATIONAL SCIENCES

- Data Science and Statistics / Mathematics and Operations Research

San Francisco, United States

May. 2018 - PRESENT

## Experience

### Freelance software developing

SOFTWARE ENGINEER

- Developed a Mac Cache cleaner
- Developed a task progress monitoring tool
- Developed a Duplicity-detecting bot

Wuxi, China

Jun. 2015 - PRESENT

### Wuxi High School Astronomy Organization website maintenance

OPERATIONS MANAGER & EDITOR

- Maintained the website by blocking random attacks
- Optimized cache system to increase QPS

Wuxi, China

Sep. 2014 - PRESENT

### Nine Chapter Inc.

WEB DEVELOPER & COMPONENT DESIGNER

- Streamlined frontend building process
- Sped up project building speed by 20x with caching
- Bridged major front-to-back communications & REST API design

Shanghai, China

Aug. 2017 - Nov. 2017

### Complex Network Summer School at University of Pennsylvania

PARTICIPANT & CODER IN GROUP PROJECT

- Analyzed social and biological network with computer simulation
- Devised a algorithm to find the most important person in a social network
- Optimized the program 200 times its original speed

Philadelphia, United States

Jul. 2016 - Aug. 2016

### IASC Asteroid Search

IMAGE ANALYZER & ASTEROID RESEARCHER

- Analyzed images for possible unidentified asteroid with advanced algorithm
- Reported results to Minor Planet Center, Harvard University
- Located 2 asteroids based on NASA-provided images

Wuxi, China

Jun. 2015 - Oct. 2015

## Honors & Awards

### INTERNATIONAL

- |      |   |                   |
|------|---|-------------------|
| 2018 | <b>3rd Place</b> , Hack.Shanghai Hackathon  | Shanghai, China   |
| 2017 | <b>Finalist</b> , HiMCM Modeling Contest  | United States     |
| 2016 | <b>11 out of 3000</b> , World Scholar's Cup Competition(Personal writing section) | Bangkok, Thailand |
| 2016 | <b>2nd Place</b> , American Mathematics Competition                               | United States     |

### DOMESTIC

- |      |   |                 |
|------|---|-----------------|
| 2017 | <b>1st Place</b> , Iot National Competition         | Qingdao, China  |
| 2016 | <b>Think Award</b> , FTC Robot National Competition | Nanjing, China  |
| 2015 | <b>Judge Award</b> , FTC Robot National Competition | Shanghai, China |

## Presentation

### 5 lectures for students about new technologies

Wuxi, China

LECTURER & ORGANIZER

Mar. 2017

- Lectured on game design, 3D printing, Deep Learning, etc.
- Attracted 300+ follower to our WeChat public account in one lecture

## Writing

### News & Introductions to computational sciences

WeChat public account

FOUNDER & WRITER

Aug. 2016 - Aug. 2017

- Drafted news and simple tutorials about computational sciences for students in China
- Promoted students to start coding in middle school

## Extracurricular Activity

### The Search for Extra Terrestrial Intelligence At UC Berkeley

Wuxi, China

VOLUNTEER & PROMOTER

Sep. 2014 - PRESENT

- Raised awareness about this project
- Contributed 636.67 quadrillion floating-point operations in search for extraterrestrial life

### School Information Security

Wuxi, China

PENETRATION TESTER

Sep. 2015 - May. 2018

- Conducted penetration on school CCTV system, revealed several exploits
- Conducted penetration on school SQL database

### FIRST Robotics

China

TEAM LEADER & CODER

Sep. 2014 - Aug. 2017

- Devised 4 multi-purpose robots
- Raised 230,000 RMB (34,200 USD) for our project
- Won Inspire Award(2017, National), Think Award(2016, National), and Judge Award(2015, Province)