

## EDUCATION

### Software Developer, Oracle Cooperation(2014.7-2017)

Completion of technical training on Operating System named 'Solaris 11 Internals' from Oracle  
Certificates of Business English Specialization From University of Washington through Coursera  
Graduate certificate of Oracle NCG training program

### Control Science and Engineering Master, Tsinghua University(2011.9-2014.9), 82.9/100

Teaching Assistant of "Statistical Methods with Applications" from degree's supervisor  
Computing Lab Administrator(~50 users, RedHat)  
A scientific report on systematic evaluation and comparison of seven RNA mapping tools

### Software Engineering Bachelor, Harbin Institute of Technology(2007.9-2011.7), 90.05/100

American Interdisciplinary Contest in Modeling(Honorable Mention)  
Two times of National Scholarship and several People's Scholarship  
IBM China Scholarship for Excellent Students

## WORK EXPERIENCE

### Research and development engineer for WAN data transmission software, 2024.4-Present

Maintained software product named YSFTP to function well, including fixing bugs and tuning customer systems. Solved problems like classical LOSF(Lots of Small Files) problem and speed shaping.

### Algorithm Engineer of Chassis Control, 2022.1-2023.3

#### ZEEKR CORP. (Ningbo, China)

Worked out the algorithm for computing vehicle reference speed from Volvo matlab source code and used Kalman Filter improved precision of vehicle speed calculation, proved it to be the theoretical optimal solution.

- constructed a four-wheeled vehicle dynamics model based using torque balance
- applied algorithm to solve a cubic equation cubic equation in one unknown of 3 orders
- implemented in M code a iterative version of the least squares method

### Solution Engineer for Aerospace Engineering(Intern), 2021.3-2021.9 (Beijing, China)

#### INSTITUTE 706, THE SECOND ACADEMY OF CHINA AEROSPACE SCIENCE & INDUSTRY CORP.

Participated in implementation of a multi-layered certification system, applied skills in driver developing in C, software engineering and testing techniques.

### Research Engineer for EEG data of Brain Science, 2017.10-2020.9

#### Institut National de Recherche en Informatique et en Automatique(Paris, France)

Researched on human brain electroencephalography samples collected from students and faculty and developed algorithm to detect eye blinking action based on Fourier Transform method.

- developed data collection protocol to draw EEG samples from "patients"
- created methods by using FT to waveform time series frequency division
- built 3D model of time-series EEG data as input of eye blinking action detection model

### Software Developer for Network Interface Controller Module, 2014.7-2017.3

#### Oracle Cooperation(Beijing, China)

Has worked on Solaris 12 of x86 and SPARC platform to maintain functioning of Network Interface Controller as well as coding for new features, and explored techniques on Virtualization with its application to NIC.

- Fixed 28 bugs and contributed 347 lines of code into Solaris.
- Invented ways for validation test to complete development process.
- Leded young team members to an impressive annual party programme.

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**Technical Lead for Embedded System Project, 2009**  
**Neusoft Company (Dalian, China)**

Participated in an embedded project called "Intelligent Electrical Appliances Control System (IEACS)". It simulates automatic control of the electrical appliances, including lights and air conditioner, in a house. The IEACS has four modules: Hardware Drivers Module, Logical Module based on uC/OS-II, Communication Protocol Module and PC Application Module.

- Finished development of Communication Protocol Module.
- Designed own serial port communication protocol.
- Well ensured document quality.

**SKILLS**

C/C++, Python Developed a simplified C language compiler with almost 9000 lines of C++ code.  
Linux/Solaris System&Shell Script Hands-on experience working with clusters and debugging skills with MDB/DTrace.

Algorithms Researched on evaluating seven popular RNA mapping tools(string algorithms)

- Design and Analysis of Bioinformatics Algorithms at Tsinghua 88/100 (and personally developed a graph algorithms package in R)
- Algorithm Design and Analysis at HIT 79/100
- Combinatorics at Tsinghua 80/100

Machine Learning(AI&Big data) Worked as a volunteer of THUDatapi

- Pattern Recognition by Prof. Changshui Zhang 82/100
  - Statistical Methods with Applications at Tsinghua 80/100
  - Introduction to Statistical Theory by Prof. Xuegong Zhang 70/100
- English iBT 98(2010) IELTS 6.5(2017)
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