

# Xin Zhang

Phone: Tel : (+86)180-0408-7698 | Email: zhangdlmuqsing@163.com

## EDUCATION

---

### University of Science and Technology of China

Sep 2020 - Jun 2023

Hefei, China

M.S, Computer Science and Technology.(Information Security)

### Dalian Maritime University

Sep 2016 - Jun 2020

Dalian, China

- GPA: 4.0 / 5.0    Rank:4/92(in major)
- B.S , Computer Science and Technology.
- CCF(China Computer Federation) Student Member.

## RESEARCH

---

### Publication

- Xin Zhang,Huyue Chen,Chao Zhai,Junpeng Zhang,Bin Xu\*,Research on Optimization of Defogging and Clustering Algorithm Based on Dark Channel [J]Computer Measurement & Control,2019.27(7).

### Computer Software Copyright

- Automotive electronic sensor information fusion system[2019SR0435715]

### Research Projects

1 . Research on Improved Processing of Defogging Based on Dark Channel.

- Researched the dark primary color prior algorithm and related knowledge of cluster analysis.
- Found that the time complexity of the original algorithm is high and the problem of image distortion will be improved when there is a very bright area in the image, and improve the issue and also published a paper in a core Chinese journal.

2 . Intelligent customer service question answering robot based on knowledge graph.

- Using the intranet penetration technology to complete the connection.
- Using Lucene search engine technology to generate full-text indexes, and access relational database / knowledge graph data through search judgment of full-text indexes
- The knowledge graph data is generated by mapping the relational database with D2RQ technology, stored in RDF, and queried using the query language SPARQL.

3 . Analysis of Linux storage management mechanism

- Analyze the physical memory hierarchy and research related papers to analyze the data structure of the physical page area and nodes.
- Study the basic operations and algorithm principles of page replacement and discarding and implemented the buddy algorithm.
- Have a preliminary understanding of the working principle of the slab allocator, and check the kernel source code to learn the basic operation mechanism of the red-black tree of Linux.

## INTERN EXPERIENCE

---

### Momenta

Dec 2019 -

Research & Development Intern

- Mainly involved in the development, research and maintenance of simulation platforms for driverless systems

*Development Intern*

- Build a test environment based on the Linux system platform (compile output, template derivation, etc.) and write request script , and complete performance test and function test for improvement.
- Participate in the recommendation system to improve the implementation of strategies.

**HONORS**

---

**Scholarships**

- 2017    Second-class Academic Excellence Scholarship , The bank of China.
- 2018    First-class Academic Excellence Scholarship , Dalian Maritime University.
- 2019    First-class Science and Technology Innovation Excellence Scholarship , Dalian Maritime University.  
           Second-calss Academic Excellence Scholarship , Dalian Maritime University.

**Academic Competition Awards(Selected)**

- |      |  |                      |
|------|--|----------------------|
| 2019 | National College Student Computer Design Competition                             | Provincial 2nd Prize |
|      | National "Chanllenge Cup" Science and Technology Compitition                     | Provincial 2nd Prize |
| 2018 | National College Student Math Contest  | National 3rd Prize   |
|      | National College Student Innovation and Entrepreneurship Training Program        | National Award       |
|      | Provincial First Prize of National College Student Mathematical Modeling Contest | Provincial 1st Prize |
|      | E-commerce "Innovation, Entrepreneurship and Creativity" Competition             | Provincial 3rd Prize |

**Honor Awards**

- Outstanding Graduates of Dalian City
- “Three Good Student”of Dalian Maritime University
- Excellence Communist Youth League of Dalian Maritime University
- Science and Technology Star of Dalian Maritime University,Information and Technology Collage

**OTHER ASCEPTS**

---

- **Skills:** C/C++, Python、Linux command、SQL、Java、 shell、 Tamarin(basic,on learing) etc.
- **Languages:** Chinese(Putonghua)、 English 、 Japanse(Currently on learning)
- **Student Work:** Monitor 、 Director of Planning Department of University Technology Innovation Association