

# Baixi Sun 孙百西

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## SKILLS

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- Language: Java, Matlab, C#, C++, C, JavaScript, python, SQL.
- Frameworks: SpringMVC, myBatis, .NET, Hadoop, Spark, pySpark, SparkSQL.
- Techniques: TensorFlow APIs, parallel programming by using OpenMPI, C++ STL, Ajax, IIS server, Tomcat Server, Aspect Oriented Programming (AOP).
- Tools: Navicat, MySQLwork bench, Oracle PL/SQL, MyEclipse, Eclipse, NetBeans, IntelliJ IDEA, Microsoft Visual Studio, Qt, Anaconda, PyCharm, Adobe Dreamweaver, visio, power designer.
- Systems developed on: Ubuntu 16, RedHat (used in course assignments), MacOS, Windows 10, Windows Server.
- Abilities to read and understand Software design documents, PRD (Product Requirement Document), SOW (Statement of Work) and Testing Reports.
- Abilities to develop by standards and base on documents.

## EDUCATION

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| <b>Master of Computer Science and Engineering (CS MS)</b> | Sept. 2018- Jun. 2020 |
| • University of California, Riverside                     | Riverside, California |
| <b>Bachelor of Software Engineering (B.E.)</b>            | Aug. 2014-Jun. 2018   |
| • Harbin Engineering University                           | Harbin, China         |

## JOB & RESEARCH EXPERIENCE

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| <b>Twitter Trending Detection via Spark, Doc2Vec and SVM   Riverside, California</b>  | Oct. 2019-Now       |
| <i>Implemented the embedding and classifying part</i>   |                     |
| <ul style="list-style-type: none"><li>• Parsed the output of Spark and embedded user comments into vectors via Doc2Vec.</li><li>• Get labels from Spark and implemented a semi-supervised method to generate a training model.</li><li>• Used SVM to classify user comments by the model we got and aggregate them by platform (i.e. Twitter, Reddit).</li></ul>  |                     |
| <b>Misinformation Detection via Tensor Embeddings   Riverside, California</b>   | Sept. 2019-Now      |
| <i>Refactored the algorithm source code (Matlab)</i>  |                     |
| <ul style="list-style-type: none"><li>• Implemented the part that generates article matrix, change the matrix element from co-occurrence to words' distance.</li><li>• Learned how Tensor works in article classification.</li></ul>  |                     |
| <b>Search Engine based on Lucene framework   Riverside, California</b>  | Feb. 2019-Mar.2019  |
| <i>Implemented Lucene indexing part and query algorithm</i>   |                     |
| <ul style="list-style-type: none"><li>• Parsed the data that passed from our crawler into org.apache.lucene.document object.</li><li>• Built the Lucene index.</li><li>• Removed stop words of the query</li></ul>  |                     |
| <b>Neural Network based HCCR   Riverside, California</b>  | Oct. 2018-Dec. 2018 |
| <i>Implemented part of the algorithm and adjusted parameter of a Handwriting Chinese Character Recognition with CNN</i>   |                     |
| <ul style="list-style-type: none"><li>• Did the course research by studying the Handwriting Chinese Character Recognition System.</li><li>• Learned CNN and R-CNN.</li><li>• Implemented the file parsing part</li><li>• Adjusted the parameter of the kernel algorithm.</li></ul>  |                     |
| <b>Graduate Project   Harbin, China</b>   | Dec. 2017-May. 2018 |
| <i>Implemented a Graph Layout Algorithm in Java</i>   |                     |
| <ul style="list-style-type: none"><li>• Studied and Implemented a novel graph layout algorithm in Java</li><li>• Implemented BFS to calculate the Euclidean distance and embedded graph into high dimensions.</li><li>• Implemented PCA algorithm to project the graph into low dimensions(Remove the redundant information).</li><li>• Implemented visualization part by using D3.js</li></ul>   |                     |
| <b>Aoyun Technology Co. Ltd.   Harbin, China</b> <i>Intern Software Engineer</i>  | Jul. 2017-Aug. 2017 |
| <i>Developed APP Web services using C#.NET framework.</i>   |                     |
| <ul style="list-style-type: none"><li>• Developed the function to get weather data from website and implemented a visualization method.</li><li>• Implemented the Account Managing, Login and Verify via phone message module.</li><li>• Developed the WeChat part by using the API from the WeChat platform. Send json to WeChat server via POST method to generate the menu, and use the request method for each menu button to get the web services.</li></ul> |                     |

**Neu Soft Co. Ltd. | Dalian, China      Intern Java Engineer** Jan. 2017-Apr. 2017

*Developed and optimized corporate system based on SpringMVC framework, myBatis, Ajax, and jQuery.*

- In PRP setting stage, set module to view project progress and workload, added PRP information.
- Researched, added, and modified project information for project setting module and managed data with Oracle 11
- Applied FreeMaker and HTML in staff setting module, added staff and distributed roles.

**703 Research Lab | Harbin, China      Software Engineer** Feb. 2016-Jan. 2017

*In charge of developing blueprint storage managing system.*

- Developed Java project management application to provide task assigning, issue and bug tracking for developer team.
- Created collaborative work platform including file sharing, working time reporting and task administrating.
- Applied advanced generic design patterns to the project to adapt solutions to different demands.

**Harbin Engineering University PDS Workshop | Harbin, China      Software Engineer** Sep. 2015-Feb. 2016

*Modified Spare Parts Production Management System based on C#WPF.*

- Developed C# Web project management application to provide task assigning, issue and bug tracking for developer team.
- Restructured the program and gave clear annotation to some codes that hard to understand.
- Created collaborative work platform including progress control, quality view and task administrating.
- Applied advanced generic design patterns and frameworks to the project to adapt solutions to different demands.

## **OTHER EXPERIENCE & SOCIAL WORK**

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**National College Students' training program for innovation and Entrepreneurship | Harbin, China** 2018

- Participated in the event with the program "Software Testing Data Optimizing System".

**Harbin Radio Station | Harbin, China** 2015-2018

- Part-time broadcaster and engaged in the radio program which shows excellent volunteer works.

**Department of International Students Union of Harbin Engineering University | Harbin, China** 2017

- Worked as HSK5 (Test of Chinese level) volunteer tutor for international students, using English in class to tutor Chinese tests.

**Harbin Bank 2016 Harbin International Marathon | Harbin, China** 2016

- Worked as a volunteer for Harbin Bank 2016 Harbin International Marathon.

## **AWARDS**

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- 3rd Prize of Dong Bei Provinces ACM/ICPC Contest Nov. 2015
- 2nd University Scholarship May 2017
- 2nd University Scholarship Sept. 2017
- 3rd University Scholarship May 2018

## **HOBBIES**

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- Coding (GitHub: <https://github.com/Presciman>)
- Basketball
- Table Tennis
- Soccer
- Swimming
- Snowboarding & Skiing
- Hiking
- Go
- Video Games