

Bo-Sin Zhang

SENIOR SOFTWARE ENGINEER · DATA ENGINEER

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Summary

Senior Software Engineer at FST Network. 5+ years experience in backend development, web programming, data engineering, and natural language processing. Love Linux-based environment and enjoy to solve interdisciplinary problems.

Work Experience

FST Network

Taipei, Taiwan

SENIOR SOFTWARE ENGINEER

Oct. 2018 - Now

- Implement and design Node.js CLI (commander.js) with FST product LOC.
- Help business customers analyze problems and provide technical support by using LOC.
- Implement POC of Event Sourcing pattern with Elasticsearch (time series data).
- Design and implement search mechanism for time series data. Including search by query and pattern matching search with Elasticsearch (EQL, Search API).
- Develop backend API of blockchain platform integrated with k8s.
- Design Authentication & Authorization mechanism with cloud native solutions (Open Policy Agent, Envoy sidecar pattern).
- Implement explorer of Ethereum private chain with React
- Use GraphQL with Relay

Appier

Taipei, Taiwan

SOFTWARE ENGINEER INTERN

Aug. 2016 - Feb 2018

- Develop in Chinese & Japanese NLP tools for text preprocessing.
- Implement an E-commerce Recommendation System with Factorization model.
- Implement a Network Representation Learning system for recommendation.

National Chengchi University

Taipei, Taiwan

TEACHING ASSISTANT

Sep. 2016 - Jun. 2018

- Sep. 2016 - Jan. 2017: Computer Programming (I)
- Feb. 2017 - June. 2017: Social Network Application
- Sep. 2017 - Jan. 2018: Introduction to Digital Contents and Technologies
- Feb. 2018 - Jun. 2018: Web Search and Mining

Education

National Chengchi University

Taipei, Taiwan

MASTER DEGREE IN COMPUTER SCIENCE

Sep. 2016 - Jul. 2018

National Chengchi University

Taipei, Taiwan

BACHELOR DEGREE IN COMPUTER SCIENCE

Sep. 2012 - Jun. 2016

Publication

E-commerce Recommendation Systems Based on Heterogeneous Information Network Embedding

Master Thesis

AUTHOR

Aug. 2018

- ND LTD: <https://hdl.handle.net/11296/95g6xu>
- github: https://github.com/LonSilent/master_thesis

ICE: Item Concept Embedding via Textual Information

ACM SIGIR 2017 short paper

CO-AUTHOR

Aug. 2017

- ACM: <https://dl.acm.org/doi/10.1145/3077136.3080807>
- github: <https://github.com/cnclabs/ICE>

Programming Language & Tool

- Proficient: Typescript/Javascript, Python
- Familiar with: Rust, C/C++, Java (Spring Boot)
- Tools: Linux terminal, git, vscode, vim, kubect!, latex

Artificial Intelligence

- Natural Language Processing: Chinese & Japanese Segmentation (jieba, mecab), Keyword Extraction
- Information Retrieval: Search Engine Algorithm (ex. TF-IDF, BM25)
- Machine Learning: Text Classification (scikit-learn, xgboost...), Nearest Neighbor Search
- Recommendation: Matrix Factorization, Factorization Machine
- Deep Learning: Network Embedding, Word Representation Learning

Web Development

- Frontend: React, jQuery
- Backend: Express
- Project: ExchangeWorld (<https://github.com/ExchangeWorld/ExchangeWorld>)
- Project: NCCU30 (<https://github.com/SSARCandy/nccu30>)

CLI Development

- Use Node.js (commander.js, inquirer)

Honors & Awards

INTERNATIONAL

- 2017 **188th place (6%)**, Kaggle competition: Quora Question Pairs
- 2015 **49th place**, 2015 KDD CUP

DOMESTIC

- 2017 **Excellent Teaching Assistants Awards**, National Chengchi University