Li Dengju

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Job Intention: Algorithm Engineer (NLP)
Last update: October 9, 2019

Resume

Better to light one candle than to curse the darkness.

Education

- **Sichuan University (SCU)** — Chengdu, China
  Master's degree; Computer Technology; GPA: 3.52/4.00; Ranking: 10%; Transcript — *Sep. 2017 – Jun. 2020*
- **Southwest University for Nationalities (SWUN)** — Chengdu, China
  Bachelor's degree; Software Engineering; GPA: 3.23/4.0; Ranking: 10%; — *Sep. 2013 – Jun. 2017*

Work Experiences

- **DXY.cn** — Hangzhou, China
  NLP algorithm intern — *Jul. 2019 – Sep. 2019*
  - **Responsibility**: Mainly responsible for research on semantic matching, reading comprehension, knowledge graph in professional domain, and algorithm designing and implementation.

Recent Experiences

- **The audio-semantic model for robot development** — Chengdu, China
  First Author — *May. 2019 – Jun. 2019*
  - **Dance to the music expressively**: Propose an audio-semantic model for cognitive development of robot, which makes the robot can dance according to the emotions expressed by the music and the memory related to the music. The paper has been submitted to the conference *ICONIP2019*
- **Research on the QA problem in NLP modeling based on meta-learning** — Chengdu, China
  Second Author — *Jan. 2019 – Mar. 2019*
  - **QA problem Modeling based on meta-learning with small samples and simple structure**: Participate in the research of a meta-learning-based efficient question-and-answer model that yields better or competitive results compared with the MemNN, EntNet and MemN2N model on the 1k bAbI dataset and the scaled down CBT dataset.
- **Research on the associative memory for cognitive development of robots** — Chengdu, China
  First Author — *Oct. 2018 – Feb. 2019*
  - **Bidirectional associative memory model based on SNN for cognitive robots**: Lead the research of bidirectional associative memory (BAM) model based on spiking neural networks, and build the system for vision-action semantic associative learning of robot. The paper has been submitted to the journal *Neural Networks*.
- **Research on gesture recognition method based on SNN** — Chengdu, China
  Second Author — *Apr. 2018 – Jun. 2018*
  - **Gesture recognition method based on SNN**: Propose the gesture recognition method based on spiking neural networks, the paper *A Gesture Recognition Method Based on Spiking Neural Networks for Cognition Development* has been published on the conference ICONIP2018.
- **The 3rd Sichuan "Internet +" college students innovation competition** — Chengdu, China
  Actual Lead — *Jun. 2017 – Sep. 2017*
  - **Road Show**: Based on the laboratory innovative results, the brain-inspired GPS chip is proposed. I give the speech and we win the silver award.

Selected Skills

- **Languages: Python**; **Java**; **Javascript**; **C/C++**; markdown; LaTeX; native Chinese; fluent professional English
- **Systems/Tools:** General Linux DevOps; docker; MySQL; Unity3D
- **Frameworks: tensorflow**/sklearn/keras/opencv/numpy/pandas/matplotlib;
  spring-boot/spring-MVC/my-batis; flask; vue/electron/jquery
- **Add-ons:**
  - **Coding**:
    Familiar with basic algorithms and data structures;
    Good at using Python and various frameworks for algorithm implementation.
  - **Loving**:
    Like full stack technology, and focus on back-end engineering;
    Have completed the back-end development of the official website of the laboratory with SSM framework. See http://ncrc.scu.edu.cn.
    Love open source, like sharing. More information see: http://lidengju.com