# Sicheng Liu

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## Education

**The University of Sydney** *Sydney*

M.E in Information Technology & Information Technology Management        Aug. 2022 - Present
- GPA: 82/100
- Courses: Machine Learning and Data Mining (89), Natural Language Processing (97), Deep Learning (78)

**Nanchang Hangkong University** *Nanchang*

B.E in Software Engineering        Sep. 2018 - Jun. 2022
- GPA: 85.6/100 (top 5%)
- Courses: Algorithm Design and Analysis (91), Software Design and Architecture (91)

## Publications

[1] Liu, S., Shu, J., & Liao, Y. (2021, June). Depression tendency detection for microblog users based on SVM. In 2021 IEEE International Conference on Artificial Intelligence and Computer Applications (ICAICA) (pp. 802-806). IEEE. [Link]

[2] Liao, Y., Shu, J., & Liu, S. (2021, June). A text classification framework for depression tendency detection over online social platform. In 2021 IEEE International Conference on Artificial Intelligence and Computer Applications (ICAICA) (pp. 796-801). IEEE. [Link]

## Research Projects

**Research on Sentiment Analysis Method Based on BERT** *Nanchang*

National College Students' innovation and entrepreneurship training program (No. 202010406016), Supervisor: Jian Shu        Dec. 2021 - Jun. 2022
- A dataset is created by collecting data from Sina Weibo.
- A depression tendency detection model is constructed based on BiLSTM and SVM.
- Won the second Prize of the 15th Jiangxi College Students' Computer Works Contest

**Depression Text Tendency Detection Based on Deep Learning** *Nanchang*

Undergraduate Thesis, Supervisor: Jian Shu        Jul. 2020 - Jun. 2021
- Use BERT, Word2vec, random Embedding as word embedding model, use BiLSTM, LSTM, Text-CNN as feature extraction models
- Visual analysis of the classification effect of various model combinations on the IMDB and Weibo sentiment analysis datasets
- Won the first Prize of the 17th Jiangxi College Students' Computer Works Contest

## Awards and Honors

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| Aug. 2022 | **Contest**: First Prize in "17th Jiangxi College Students' Computer Works Contest" | *Nanchang* |
| Jun. 2022 | **Honorary Title**: "Excellent Graduate of Nanchang Hangkong University" | *Nanchang* |
| Oct. 2020-2021 | **Scholarship**: "Nanchang Hangkong University First-class Scholarship" | *Nanchang* |
| May. 2021 | **Contest**: Second Prize in "12th Lanqiao Cup National Software and IT Professional Talent Competition (C/C++ Programming College Group B, Jiangxi Division)" | *Nanchang* |
| Oct. 2019-2020 | **Scholarship**: "Nanchang Hangkong University Second-class Scholarship" | *Nanchang* |

## Professional Experience

**Teaching Assistant (Part-time)** *Nanchang*

Nanchang Hangkong University        Feb. 2022 - Jun. 2022

**Intern** *Nanchang*

Jiangxi Lianwei Software Technology Company        Sep. 2021 - Oct. 2021
- Develop COVID-19 data visualization website by using Hadoop, Vue and Echarts

**Research Assistant (Part-time)** *Nanchang*

School of Management, Xi 'an Jiaotong University        Jan. 2021 - Jun. 2021
- Engaged in the data proofreading and extraction of the key information of data for data pretreatment

## Technical Skills

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|---|---|
| **Programming** | Pytorch, Tensorflow, scikit-learn, Java, Spring |
| **Typesetting** | Office, LaTeX |
| **Languages** | Mandarin(Native), English(Fluent) |