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Southampton, UK  
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# Pinyi Lyu

BSc Computer Science / Startupper

GitHub: Royc30ne  
Website: www.royc30ne.com

An engineering student with a strong background in Computer Science, particularly interested in machine learning.

Dedicated and passionate about my subject, I have been skilled with C, Python, and Java. I am a person who is crazy about technology. If there is anything that stirs my interest, I will work hard to ensure the best. Also, I have excellent self-study skills. While my teacher was teaching C, I also taught myself Python and looked for resources to learn algorithms. I am also very interested in investment, and I started to invest in the secondary market in my senior year. Now, my annualized rate of return has reached 20%. In addition to my studies, I put what I have learned into practice. I use the computer knowledge I have learnt to provide VPN (Virtue Private Network) for people.

## SKILLS

<b>Tools and Languages</b>	C, HTML, Javascript, Python, Java, Haskell, Git, $\text{\LaTeX}$ , Markdown
<b>Frameworks</b>	Keras, TensorFlow, Tensorflow-Federated, PyTorch
<b>Other Skills &amp; Certificates</b>	Microsoft E5 Developer, Advanced Google Analytics

## EXPERIENCE

<b>Univeristy of California, Irvine Summer Seminer</b>	<b>06/2022 — Present</b>
<i>Supervisor: Associate Prof. Zhiying Wang at Univeristy of California, Irvine</i>	<i>Univeristy of California, Irvine, US</i>

- **Research Topic:** Optimization of Federated Learning Aggregation Algorithms
- Gain experience for the research of Federated Learning.
- Learned how to start an individual research project.
- My final year project will the part of this project.

<b>Benchmarking Deep Learning Text Classification NLP Models</b>	<b>06/2022 — 10/2022</b>
<i>Supervisor: Associate Prof. Stuart Middleton at University of Southampton</i>	<i>Univeristy of Southampton, UK</i>

- Working with a team of researchers to build a new Deep Learning classification model for the SafeSpaceNLP domain.
- Gain more experience in the field of Natural Language Processing and Deep Learning.
- Annotated a reddit dataset for the SafeSpaceNLP domain.
- Paper will be published around this Christmas.

<b>Member of the Paper Writing Group Targeting ACM Survey (CSUR)</b>	<b>02/2022 — Present</b>
<i>Supervisor: Associate Prof. Stuart Middleton at University of Southampton</i>	<i>Univeristy of Southampton, UK</i>

- Gained experience of writing a systematic review paper
- Establish the basic knowledge framework of Natural Language Processing in Hate Speech Detecting Area
- Learned how to cooperate with each other in a research group

<b>Deep Learning Online Training Project</b>	<b>11/2021 - 01/2022</b>
<i>Supervisor: Associate Prof. Mark Vogelsberger at MIT</i>	<i>Online Module</i>

- Learned deep learning algorithms such as CNN, RNN, and GAN
- Collaborated with the team to develop a model for diagnosing and identifying lesions in lung cancer by processing the lung cancer image using the signal spectrum analysis first, and then combining it with the CNN algorithm to improve accuracy
- Established different CNN models in TensorFlow and adjusted parameters to improve diagnostic accuracy
- Completed the Algorithms and Techniques, Model Evaluation and Validation, and Justification parts of the written report

<b>President/Legal Representative</b>	<b>08/2021 — Present</b>
<i>Shanghai Ruoting Trading Co., LTD</i>	<i>Shanghai, China</i>

- Acting as a commercial agent to resell domestic high-quality electronic products overseas, and as a product procurement channel for large domestic companies (cross-border e-commerce)
- Having established channel agent partnerships with three local brands

<b>Co-founder</b>	<b>11/2021 — Present</b>
<i>Hong Kong Roytin Limited</i>	<i>Hong Kong, China</i>

- Acting as a VIE ((Variable Interest Entities) framework agreement to control the Shanghai Ruoting Trading Co., LTD

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## EDUCATION

**BSc Computer Science**, University of Southampton 09/2020 - Present

**First Year:** 79.5/100

**Second Year:** 50/100

**Modules:** Algorithmics; Programming I & II; Computer Systems I; Foundations of Comp Sci; Software Modelling & Design; etc.

**Summer Seminar**, University of California, Irvine

06/2022 - 10/2022

**GPA:** 4/4

**Modules:** Individual Project

**BSc Computer Science**, Changzhou University

09/2019 - 06/2020

**GPA:** 4/5

*Modules: Fundamentals of Computers & Programing Design; Introduce to Computer Science and Technology; C Language Course Design; Linear Algebra; Advanced Mathematics; Physics Laboratory Practice Excellent*

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## AWARDS

**2022 ECS UG Research Scholarship**

School of Engineering and Computer Science, University of Southampton

**Supervisor:** Associate Prof. Stuart Middleton at University of Southampton

**Research Group:** Benchmarking deep learning text classification NLP models for behaviour classification of online forum discussions

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## ACTIVITIES

### Hi-Fi

I'm very interested in hi-fi systems, including headphones, speakers, DAC, and AMP. I also taught myself electroacoustics in my spare time by reading relevant books.

### Photograph

I often go out to look for scenery to take photos and participate in various photoexhibitions to learn from others' experiences. I think it can improve my aestheticquality and exercise my patience

### DJ

As i am a music lover, i also like to make music set in my spare time.