# Yiran Su

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## Education

- **University of Texas at Austin** Austin, TX, USA
  ***M.S.*** *in Engineering,* ***Software Engineering & System*** *track, ECE Dept.* ***GPA****: 3.73* *Aug. 2019 - May. 2021*
- **Sun Yat-sen University, School of Data and Computer Science** Guangzhou, China
  ***B.E.*** *in Network Engineering* ***Overall GPA****: 3.85/5.00,* ***Junior GPA****: 4.25/5.00* *Aug. 2015 - Jun. 2019*
  ***Course Highlights****: C++ programming, Data Structure and Algorithms,*
  *Operating System, Computer Network, Web Programming, Mobile Internet Programming Project*

## Skills

**Programming Language** C++, Python, Java, HTML5, CSS, JavaScript, Kotlin, Shell, SQL
**Framework and Tools** React Native, Flask, PyTorch, Tensorflow, Docker, MongoDB, Kubernetes

## Publications

Manor, L., **Su, Y.**, et al. "**What is FAFSA? Interpreting non-technical jargon in domain-specific text**", COLING 2020, submitted.

## Intern Experience

- **Coherent Logix Inc.** Austin, USA
  *Video, CV and Deep Learning Group* *May. 2020 - Aug. 2020*
  - Explored **nerual network quantization** topics that convert a floating-point nerual network to an integer-based nerual network, in order to lower required calculation resource.
  - Applied **16 bits** Quantization Aware Training (**QAT**) and Post-training Quantization (**PQ**) for ResNet, SqueezeNet and MobileNet with **Tensorflow 2** (In progress).
- **Tencent Inc.** Shenzhen, China
  *Perceptual Intelligence Group* *Sept. 2018 - Mar. 2019*
  - Developed a **pattern-based natural language parsing framework** in **Python** for a task-oriented Arena of Valor **chatbot** "Lu Bu (Lv, Bu)", while **reducing** the average latency by **27%** to **less than 90 ms**.
  - Deployed the above framework on a **Tornado** Server, which handled more than **100k related requests** per day.
  - Designed an **automatic** user log analyzer (**Python**) for the chatbot which is able to evaluate high-frequency request, customer stickiness and new feature performance.
- **Graduate Teaching Assistant** Austin, USA
  *EE 422C Software Design and Implementation (**Java**) II* *Jan. 2020 - May. 2020*

## Project Experience

- **Consistency Regularization (CR) in Natural Language Processing** Austin, TX
  *Research project for LIN 393: Computational Linguistic at University of Texas at Austin* *Sept 2019 - Dec 2019*
  - Embeded the semi-supervised learning concept **consistency regularization** into supervised learning NLP tasks, in order to make the supervised model **more robust to it's predictions**.
  - Implemented the new **TextCNN-CR** model with **PyTorch**. Scored **77.06%** in accuracy on MR (Movie Review Data) binary classification dataset, compared with the 75.33% accuracy of original TextCNN model.
- **International Aerial Robotics Competition** Guangzhou & Beijing, China
  ***Innovative Design Award****, Computer Vision Group member* *Sept. 2017 - Aug. 2018*
  - Designed an object **detection** and **location** system for an aerial robot.
  - Constructed an **SVM** ground robot detector in **C++** for our system by writing a **self-implemented** Histogram of Oriented Gradient descriptor (**HOG descriptor**) and applying **OpenCV**'s related packages.