Yiran Su

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EDUCATION

- **University of Texas at Austin**   Austin, TX, USA
  M.S. *in Engineering,* ***Software Engineering and System*** *track*   *Aug. 2019 - May. 2021 (expected)*

- **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, Bootstrap, Git, MongoDB, Google Cloud Platform

INTERN EXPERIENCE

- **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)", with **less than 100 ms total delay** on average.
  - Deployed the above framework on a **Tornado** Server, which handled more than **100k related requests** one day.

PROJECT EXPERIENCE

- **Share Your Review**   Austin, TX
  Course project for EE 382V: Advanced Programming Tools at University of Texas at Austin   *Sept 2019 - Dec 2019*
  - Participated this **full stack** project whose aim is to share book reviews. Users can create his/her own account, post book reviews, read reviews from others, subscribe certain categories and get corresponding update notifications.
  - Designed a **MongoDB** database with **PyMongo** as our project database. Provided whole set of operating APIs and **unit testing** methods.
  - Developed an **MVC** backend with **Flask** & **Flask-RESTful**. Used **Firebase Storage** to store uploaded photos.
  - Accomplished **web** frontend with **HTML/CSS/Bootstrap** and embedded it into our Flask-RESTful backend.
  - Applied **Kotlin** in our **Android** frontend. Designed a **reusable cardview template** using **Adapter** and **ViewHolder**. Utilized **Camera API** and **Location API** to provide our users with diverse uploading choices. Used **Volley** to handle review creation request.
  - Implemented the **React Native** frontend with **Expo**. Beside of the points mentioned in the Android part, we applied **preps, status, context** and **hook** to deliver message, while enabled **notification** and **sharing** based on Expo components.

- **Consistency Regularization in NLP**   Austin, TX
  Research project for LIN 393: Computational Linguistic at University of Texas at Austin   *Sept 2019 - Dec 2019*
  - Embedded 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**.
  - Propsed **random delete** (fast perturbation solution) and **paraphrase substitution** (semantical perturbation solution)to perturb input data.
  - Implemented the **TextCNN** model on MR (Movie Review Data) binary classification dataset, with **PyTorch**.
  - Our model got a **77.06%** score in precision compared with the baseline score 75.33%.

- **International Aerial Robotics Competition**   Guangzhou & Beijing, China
  Computer Vision Group Member, ***Innovative Design Award***   *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.