6805 Wood Hollow Dr Austin, TX

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 Course Highlights: C++ programming, Data Structure and Algorithms,

Aug. 2015 - Jun. 2019

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

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

- o 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.
- o 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

• 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 which allows users to post their book reviews and share to other apps. Users can create their 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. Carried out unit testing for all APIs.
- 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.
- o Applied Kotlin in our Android frontend. Designed a reusable cardview template as a public method for other team members. Utilized Camera API and Location API to provide our users with diverse uploading choices. Used **Volley** to handle review creation request.
- o Implemented the **React Native** frontend with **Expo**. Beside of the points mentioned in the Android part, we enabled **notification** and **sharing** based on Expo components.

• Consistency Regularization (CR) in Natural Language Processing

Austin, TX

Research project for LIN 393: Computational Linquistic at University of Texas at Austin

Sept 2019 - Dec 2019

• Embedde 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

Innovative Design Award, Computer Vision Group member

Guangzhou & Beijing, China 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.