

EDUCATION

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- **The University of Texas at Austin** Austin, TX, USA  
*M.S. in Engineering, Software Engineering and System major, GPA: 3.73/4* Aug. 2019 - May. 2021
- **Sun Yat-sen University, School of Data and Computer Science** Guangzhou, China  
*B.E. in Network Engineering, top 10% in the class.* Aug. 2015 - Jun. 2019
  - **Course Highlights** Data Structure & Algorithms, Operating System, Computer Network, Web Programming

SKILLS

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

INTERN EXPERIENCE

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- **Coherent Logix Inc.** Software Dev Intern, May. 2020 - Aug. 2020, Austin, USA
  - Worked on **neural network quantization**, which simplifies the original neural network model, and persists the original model precision.
  - Accomplished **16/8/4-bit** Quantization Aware Training (**QAT**) with **Tensorflow 2 (Python)**.
  - Developed a set of **QAT generation & validation APIs** in **TensorFlow 2 (Python)** to simplify future applications.
- **Tencent Inc.** Software Dev Intern, Sept. 2018 - Mar. 2019, Shenzhen, China
  - Focused on a pattern-based natural language parsing framework in **Python** for a task-oriented chatbot.
  - Deployed the parsing framework on a **Tornado** (Python) Server. The framework was able to handle **100k+** user vocal requests per day, with a **27%** latency drop.
  - Created an **automatic** log analyzer in **Python** to evaluate user behavior (customer stickiness, feature performance, etc.)
- **Graduate Teaching Assistant** EE 422C (**Java**), UT-Austin, Jan. 2020 - May. 2020
  - Led weekly lectures on Java, including polymorphism, Java generic, multithreading, lambda, stream, etc.

PROJECT EXPERIENCE

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- **Share Your Review** Course project for EE 382V at UT-Austin, Sept 2019 - Dec 2019
  - Worked on a full stack project that requires both frontend (web/Android/ReactNative) and backend (response framework /database) implementation. The project goal was to help people to connect with nearby book readers.
  - Designed a MVC-styled **Flask & Flask-RESTful (Python)** backend. **Firestore** and **PyMongo** for database.
  - Accomplished a **web** frontend with **HTML/CSS/Bootstrap** and embedded it into the Flask-RESTful backend.
  - Applied **Kotlin** for the **Android** frontend. Designed a **reusable cardview template** for the team. Utilized **Volley** to handle requests. Kotlin's **Camera & Location APIs** are applied.
  - Implemented a **React Native** (JavaScript) frontend, with Camera, location, sharing and notification features.
- **Sun Yat-sen University Club Information Platform** Mar 2018 - Jun 2018
  - Designed the app to spread club event information across campus. Contributed as a frontend developer.
  - Constructed the **Android** frontend in **Java**, with **Retrofit2** & **RxJava** applied. Designed the Web frontend in **HTML/CSS/JavaScript**.
- **2018 International Aerial Robotics Competition** Computer Vision, Sept 2017 - Aug 2018
  - For ground object detection, designed an **OpenCV**-based Support Vector Machine (SVM) classifier, with a self-implemented Histogram of Oriented Gradient (HOG) descriptor in **C++**.
- **Distributed System Design** MIT 6.824 online open course, Sept 2020 - present
  - Implementing **MapReduce** and **Raft** in **Go** to utilize distributed processing.

PUBLICATIONS

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

- Proved the computational linguistic association between jargons and the corresponding context with **PyTorch** (**Python**). BERT embeddings applied.