

# LI NIE

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*Targeting a full-time Software Engineer position in May 2020*

## EDUCATION

### The University of Texas at Austin

M.S. in Information Studies, GPA 3.8

Austin, TX

Aug. 2018 - May 2020

### China University of Petroleum - Beijing

B.B.A. in Information Management & Information Systems

Beijing, China

Sep. 2014 - Jun. 2018

## TECHNICAL SKILLS

**Languages:** Python, Java, HTML, CSS, JavaScript, R, C#  
**Databases:** SQL, MySQL, SQLite, MariaDB, PostgreSQL, Access  
**Frameworks & Tools:** Spring Boot, Flask, Django, Bootstrap, jQuery, Semantic UI, REST API, Git, Postman, Heroku, DigitalOcean, Linux OS, Shell, Microsoft Azure, UML, Power BI, Tableau

## PROFESSIONAL EXPERIENCE

### IBM Security Monopoly-style Game Development

*Capstone Project*

Austin, TX

Jan. 2020 - Present

- Developing a Monopoly-style game to introduce MSS market and strengths of IBM Security services to customers
- Implementing the game development with Java, Spring Boot, and MVC design pattern.

### Daily Activity Lab, UT Austin

*Research Intern*

Austin, TX

May 2019 - Sep. 2019

- Wrote Python scripts to address data wrangling for messy raw data, including unifying time structure, combining human-made labels and sensor-generated time slots, and realizing automatically processing data across all participants' folders
- Visualized the waveform, spectrogram, and data labels for baby cry and fussing audio data using matplotlib and librosa
- Conducted preprocessing and framing on wav files and then extracted numerical audio features for cry/fuss classification

## PROJECTS

### Apartment Vacation Rental and Sublease Web Development

*Full Stack Development*

Austin, TX

Mar. 2020 - Present

- Developing a website for students' renting apartment using Spring Boot and MySQL with prototype driven development
- Defined exception handling and log processing; rendered static template files after retrieving data with Thymeleaf
- Built entities and relationships with JPA; realized combined query search with JPA Specification
- Implemented commenting, replying comments, and nested comments display with jQuery AJAX

### Social Media Site Development

*Full Stack Development*

Austin, TX

Nov. 2019 - Jan. 2020

- Conducted development following Django MTV pattern, connected with SQLite to receive, store, and send back user data
- Implemented the front-end for users to register, log in, create groups, and post blogs with Django template inheritance
- Utilized Django Form and Model Form to collect information from users and save it to models, also realizing validation

### Store Management Web Development

*Back End Development*

Austin, TX

Aug. 2019 - Oct. 2019

- Built REST APIs to realize interactions between client and server and stored objects to relational database with flask
- Processed the interactions with advanced request parsing for JSON payload and conducted proper error control
- Realized functions to allow for authentication, user log in and log out, token refreshing, and blacklisting with JWT

### Information Systems Design and Implementation Project

*Back End Development*

Beijing, China

Mar. 2018 - May 2018

- Implemented GUI information management systems in C/S and B/S architectures with C# and .Net
- Realized user management, entity management, system log management, and "CRUD" interactions with DB