

# Jiayi Zhou

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## EDUCATION

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### The University of Texas at Austin

Expected May 2021

*Bachelor of Science, Computer Science | Cumulative GPA: 3.76/4.0*

- Honors: Natural Sciences College Scholar 2019,2018
- Relevant Coursework: Cloud Computing, Computer Network, Database, Modern Web Application, Computer Systems, Algorithms, Computer Architecture, Data Structure, Discrete Math, Probability and Statistics

## SKILLS

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- Languages: Java, SQL, Python, Shell script, C, HTML, Javascript, Golang, Git
- Others: Django, Spring, CSS Bootstrap, AWS, GCP, JDBC, Hibernate, MySQL, Postgres, NoSQL, Hadoop, Lucidchart

## EXPERIENCE

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### University of Texas at Austin

Jan 2020 - Present

*-Undergraduate Teaching Assistant; Austin, TX*

- TA for CS327E(instructor: Shirley Cohen) which focuses on data management and data processing techniques;
- Holding 2 one-hour office hours every week, and providing support to 80 students in the classroom setting while they work on in-class assignments;
- Helping students' programming and debugging technique by providing hands on feedback and coaching;
- Grading SQL and Python code scripts and projects based on standardized rubrics;

### LeapTech

May 2019 - Aug 2019

*-Full Stack Engineer Intern; Beijing, China*

- Implemented an information management web application independently. Provided a platform for users to manage data without directly accessing databases;
- Designed relational data models, involving one-to-many and many-to-many model for 10 tables. Worked in MySQL database on SQL queries;
- Used Python, Django, MySQL for backend modules and CSS Bootstrap, HTML, and JavaScript for frontend modules;

### Mobike

May 2018 - Aug 2018

*-Data Engineer Intern - TECH-Big Data/BI Group; Beijing,China*

- Programmed complex SQL queries across large volumes of data on datasets (Hadoop, MySql) for data mining and data cleansing;
- Built, developed and maintained tables in overall data mart;
- Analyzed users' behaviors that should be tracked for company's analytical requirements. Designed a data tracking PRD(Product Requirement Documentation) for technical team based on Event Recording Model;
- Conducted data analysis with Excel (pivot table, vlookup) for PM team and International Strategy team in order to evaluate actionable business performance measures;

## PROJECTS

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### Traffic Camera Analytics Page - Coursework

Fall 2019

- Used Java, HTML, JavaScript, and REST APIs build a simple "analytics" display for Traffic Cameras in Austin Metro Area;
- Created a REST API to retrieve camera data from the data source for calculations and expose the results;
- Created a REST API invoked from the JavaScript to get the data which is rendered by the JavaScript;
- Deployed the web application to Heroku;

### Pintos Extension - OS Coursework

Spring 2019

- Programmed a simple operating system framework for the 80x86 architecture;
- Handled multiple threads of execution with proper synchronization;
- Improved the ability to run user programs by allowing programs to interact with the OS via system calls;
- Implemented virtual memory module to remove that limitation caused by machine's main memory size;
- Optimized single-thread file system to multi-level indexed file system;

### Pricing Strategy Project - Data Analysis

Summer 2018

- Cleansed and normalized the raw data into high-quality aligned with analytical requirements;
- Analyzed data of trips and of membership card from all Mobike's oversea users, Used Mobike' s internal data visualization tool to create visualizations;
- Designing new pricing strategy with International Strategy Team, increased income and gained more users;