# KAIYUAN GAO

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## Education

**Texas A&M University**                                                                                     **Aug 2018 – May 2022**
*Bachelor of Science in Computer Engineering*                                                                 *GPA: 3.6/4.0*

**Texas A&M University**                                                               **Expected Graduation Date: Dec 2024**
*Master of Computer Science*                                                                                  *GPA: 3.8/4.0*

## Technical Skills

**Languages/Framework**: Python (Pandas, Numpy, FastAPI, Flask, Pybind11), C++, Typescript(React, Node.js), HTML/CSS, SQL (MySQL, PostgreSQL, Oracle Database), TensorFlow
**Developer Tools**: VS Code, AWS, Linux, GitHub, Microsoft office
**Relevant topics**: Full-Stack Web Dev, Data Analysis, Project Management, Deep Learning

## Experience

**Information System Intern (Full-Stack)**                                                           **May 2023 - Aug 2023**
*EOG Resources*                                                                                              *Houston,TX*
- Conducted extensive data analysis using **Oracle Database Client** to extract key insights, ensuring efficient data handling for real-time market intelligence assessment.
- Normalized data with the **Python Pandas** Library within the pipeline by executing tasks including data normalization,missing value imputation, and data type conversions
- Manipulated data within the database and developed multiple API routes using **FastAPI**, enabling effective pipelining of formatted data to the frontend.
- Designed and implemented a user-friendly **React** frontend, facilitating user interaction and visualization of complex data, aimed at enhancing decision-making through an intuitive and engaging interface.

**Student Technician (Back-End, Infra)**                                                             **May 2021 - Aug 2021**
*SPACEcraft VR*                                                                                       *College Station,TX*
- Researched and tested libraries and tools **(Pybind11)** that can efficiently binding the C++ and Python language.
- Created Python bindings for complex C++ classes and objects, allowing direct manipulation of parameters and objects in an ongoing C++ simulation through Python, specifically leveraging Numpy types for seamless integration.
- Achieved 90% code coverage by maintaining a suite of 50+ unit tests for the python platform.

## Projects

**Scrum Master**                                                                                    **Aug 2022 - Dec 2022**
*JJ Group Leasing*
- Leading a team of 5 engineers to a CRM (Customer Relation Management) platform for our client.
- Enabled dynamic information update by building a back-end **Django** server.
- Improved interactivity and accessibility for client's target customers features by designing front-end components using **Node.js** and **Boostrap**.

**Full-stack Developer**                                                                             **May 2021 - Aug 2021**
*TAMU Grade Distribution*                                                                             *College Station,TX*
- Designed a web app to help student find information about all classes during class registration period.
- Fetched about 10,000+ data entries from the university website, normalized it with Pandas.
- Constructed a back-end database by importing the normalized data to a Postgresql server, and pipelined it to the front-end by using Flask.

## Leadership

**President**                                                                                        **Fall 2021 – May 2022**
*Chinese Student and Scholar Association*                                                             *Texas A&M University*
- Led an organization that provides service for 1000+ Chinese international students/scholars.
- Organized events such as career fair prep and Chinese New Year Gala to connect international students with the local culture and academic life.
- Oversaw yearly budget (around $20k), including cash flows, costs and expenditures, and increased the revenue by 10%.