

Zhihao (Johnson) Du
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Education

University of California, Berkeley

Fall 2019 - Now

YKPao School, Shanghai

Fall 2007 – Summer 2019

Courses

University of California, Berkeley

Current GPA: 3.6

- Statistics, BA – Modern Statistical Prediction and Machine Learning; Linear Modelling: Theory and Applications; Concepts in Computing with Data.
- Computer Science, BA – Discrete Mathematics and Probability Theory; Data Structures and Programming Methodology; Designing Information Devices and Systems II.

International Baccalaureate bilingual diploma

Final Grade: 42/45

Personal Experience

DataCVG, Shanghai

Intern

Summer 2021

- Performed Extract-Transform-Load using Kettle on a variety of data sources, including MySQL, Oracle, Greenplum, etc.
- Participated in the process of designing databases and become familiarized with the logic behind each design. The aim is to upgrade the existing database by adding new and modified features while making sure it's fully functional with older datasets.

Celestial Database

Co-founder

Summer 2021

- Self-initiated project where we investigated the algorithm and data related to the game Genshin Impact (game by MiHoYo).
- Created an online statistic calculator ^[1] based on our own algorithm, which is an estimation of the true game algorithm. The final algorithm is fitted through the process of model selection and parameter adjustment. Created an online tier list ^[2] displaying character pick rate, where the data collection process is achieved through python web crawling using requests.

Sky&X Aerospace

Chief Information Officer, Web Developer

Winter 2019 – Now

- Lead and coordinated the data collection and statistical analysis process of the team's project "Feasibility Study on Multipurpose Rooms Onboard".
- Developed and maintain the team's official website ^[3].
- Support the team with *valuable perspectives* on future market trends and product design concepts.

Skills

High level programming languages: Python, R, Java, C; **Web development related language:** HTML, CSS, JavaScript; **Assembly language:** RISC-V; **Query language:** MySQL, SQL Server

Award and Honors

Anna Sohmen Pao Award: Awarded for being the top 3 students in class of 2019 (high school)

Hobbies

Piano – Performed on high school graduation ceremony; **Choir** – Participated in ISCMS XII and ISCMS XIII (International Schools Choral Music Society); **Violin** – High school orchestra 2nd violinist; **Soccer** – high school varsity team left defensive midfielder.

[1]: zhihao617.shinyapps.io/genshin_basic_damage_calculator

[2]: youngmoe.com

[3]: skynx.berkeley.edu