

# Zaojia (Ben) Zhao

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## EDUCATION

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<b>University of California, Davis</b>	<b>2021 – 2023</b>
Bachelor Of Science, Computer Science	GPA: 3.85/4.0
<b>Pasadena City College</b>	<b>2018 – 2021</b>
Associate of Arts, Engineering and Technology	GPA: 3.87/4.0

## PROJECT EXPERIENCE

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### L-Store Database

- Led a team of five to implement L-Store database with all fundamental operations in Python
- Implemented and validated multithreading to improve performance while preserving data purity
- Successfully engaged the team to design comprehensive tests and achieved 98% accuracy

### SQL-like Database

- Emulated SQL basic operations in C++ and implemented command line interface
- Designed comprehensive unit tests and minimized program vulnerability with debugger
- Developed finite state machine with 2D array to optimize memory usage and execution speed

### Unity Game Project

- Led the animation team to design, analyze and implement character movements and hitboxes
- Implemented multiple enemy AI in a game with interest maps and decision selection algorithm
- Designed and created distinguished animation with Unity Animator for in-game enemies

### Graphing Calculator

- Used C++ to create a graphing calculator that allows user to enter functions and move the graph
- Integrated Reverse Polish Notation to reduce memory usage as well as guarantee correctness
- Developed intuitive user interface and interactive user manual to guide user through the application

## SKILLS AND AWARDS

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### Programming Languages

C, C#, C++, Java, JavaScript, Python

### Technical Skills

Git, GitHub, Shell Scripting, Object-oriented programming, Communication, Analytical Thinking, Teamwork, Time Management, Problem-solving, Piano

### Academic Awards

Dean's List, ABRSM Practical Piano Grade 8

## WORK EXPERIENCE

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**Global Outstanding Chinese Artists Association – San Mateo, CA** *October 2018 – April 2022*

### *Executive Assistant*

- Led a team of four members to hold events such as music competitions and concerts
- Collaborated with artists and resolved scheduling conflicts to carry out concerts
- Designed multiple backup plans for competition procedure which led to flawless events