

# Shuhao Gao

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**GitHub:** <https://github.com/Snackiller>

## EDUCATION

Bachelor of Science in Computer Science & Applied Mathematics & Economics

Expected Graduation: June 2025

University of California, Davis, Overall GPA: 3.886/4.00

Dean's Honor List Winter 2024

Selected Coursework: ECS 036C (Data Structures, Algorithms, & Programming), ECS 122A (Algorithm Design & Analysis), ECS 189G (Special Topics in Computer Science: Artificial Intelligence)

## SKILLS

**Programming Language:** C, C++, Python, Java, C#, JavaScript, SQL

**Language:** Fluent in spoken English and Chinese

## RESEARCH EXPERIENCE

Publications:

"Sentiment to Stocks: Rule-Based and Deep Learning Sentiment Analysis for LSTM-Driven Stock Prediction."

Presented at the 2nd International Conference on Management Research and Economic Development (ICMRED 2024), May 30, London, UK. Accepted for publication in Advances in Economics, Management, and Political Sciences (ISSN 2754-1169). Pending indexing in CPCI, Crossref, Portico, CNKI, Google Scholar, etc.

**Research Assistant**, Expolab

Jan 2024-present

Supervised by Prof. Mohammad Sadoghi, University of California, Davis

- Leverage ReactJs, NodeJs, and ResVault to build the Charity Blockchain System, better protect the privacy of users and the security of transactions

**Research Assistant**

April 2024-present

Supervised by Prof. Joshua McCoy, University of California, Davis

- Utilized TCN, Vision Mamba, and Vision Transformer to improve the Google MT3 performance

## PROJECTS

**Producer and User Interface: Survival (2D action-adventure game)**

- Assumed the role of Team Lead in group meetings, where I influenced the choice of game models and diligently supervised the project's progress to ensure both timely delivery and high-quality standards
- Initiated and facilitated comprehensive discussions, leading the team in the modification of critical game elements, including movement/physics, user interface, animation, and audio
- Conceptualized and implemented a user-friendly interface system for both the in-game character and in-game monsters, a key contribution that notably improved gameplay dynamics

**Charity Blockchain System**

- Developed a secure authentication system, utilizing encryption to safeguard user credentials and account

information

- Implemented backend integration with MetaMask for facilitating donations in Ethereum (ETH), ensuring the confidentiality and integrity of user data through secure transactions

## **PROFESSIONAL EXPERIENCE**

**Math Tutor**, Introduction to Abstract Mathematics at UC Davis

September 2022-December 2022

- Monitored and optimized teaching progression to facilitate students' comprehension of abstract mathematics
- Collaborated with the professor to identify and resolve teaching challenges, thereby enhancing the overall quality of instruction
- Addressed students' inquiries and difficulties in abstract mathematics, providing immediate solutions and reporting persistent confusions to the professor for further clarification

## **HONOR**

**Member**, Phi Beta Kappa at UC Davis

April 2023

- Recognized for outstanding academic achievement in the liberal arts and sciences, demonstrating excellence in scholarship and commitment to the values of intellectual inquiry and academic integrity