

# HAO MEI

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github.com/Tailen

## EDUCATION

### CARNEGIE MELLON UNIVERSITY QATAR

Major in Computer Science

Minor in Mathematics

Expected Graduation Date: May 2024

## AWARDS

- Gold Medal in Detect AI-Generated Text Kaggle Competition ([link](#))
- 1st Place in LifeLines Hackathon 24
- Ooredoo Special Theme for Innovations in AI and 5G Award ([link](#))

## PROGRAMMING LANGUAGES

Python  
C / C++ / C0  
Java  
C#  
Rust  
JavaScript

## TOP COURSES

- Natural Language Processing
- Distributed Systems
- Computer Systems
- Embedded Systems
- Software Foundations of Security and Privacy
- PCB Fabrication

## EXPERIENCE

### MACHINE LEARNING ENGINEER

CONGIN AI | MAY 2023 - AUG 2023

- Developed a vector-store-based chatbot framework with local large language model inference
- Communicated with backend developers and created a streaming API for inference nodes with FastAPI
- Implemented state-of-the-art image-based document layout analysis pipeline

### OPEN SOURCE CONTRIBUTOR

WALDO VISION | DEC 2022 - MAY 2023

- Programmed an image preprocessing pipeline to download videos from YouTube and format frames into square images
- Contributed advise on ML model selection

### COURSE ASSISTANT

CMUQ | JAN 2019 - MAY 2019

- Helped students understand the course material, debug homework, set up environment, and resolve other technical issues
- Met with the instructor weekly to discuss student progress and correct homework

## PROJECTS

### NLP PROJECT

JAN 2023 - MAY 2023

- Conducted an extensive research project on grammatical error correction utilizing seq2seq language models and synthetic dataset
- Reached 7th place in BEA2019 grammatical error correction open phase global competition

### CONNECT4 AI

SEP 2018 - DEC 2018

- Adapted and implemented Google Deepmind's AlphaZero algorithm for Connect4
- Developed a graphical user interface to play Connect4 with the trained AI

### 16-BIT COMPUTER

SEP 2016 - MAY 2017

- Designed and assembled a home-brew 16-bit CPU with 74-series TTL IC
- Programmed Fibonacci sequence calculation in my own assembly language to demonstrate functionality