

# Chenghai Cao

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## EDUCATION

**University of Massachusetts Lowell, Kennedy College of Sciences**

Lowell, MA

**Bachelor of Science in Computer Science:** GPA 3.394/4.0

February 2021

**Relevant coursework:** Artificial Intelligence, GUI Programming, Data Mining, Database, OPL.

## SKILLS

**Programming Language:** C, C++, Python, HTML, CSS, JavaScript, Assembly, Ada, Prolog, Haskell, Rust, Ruby

**Operating System:** Linux (Ubuntu), Mac OS, Windows, work with Raspberry Pi as well.

**Software:** Git, Emacs, Vim, Unity, Visual Studio, X Code, Axure.

**Language:** Native written & spoken in Mandarin, and fluent written & spoken in English.

## PROJECTS

### **Translation**

March - April 2020

- Using C and OCaml language to implement a complete compiler for the extended version of the calculator language, again with if and do/check statements

### **Abnormal Transaction Alert AI System**

January - March 2020

- Using Python language to produce a piece of software that be able to process a huge account of money transfer records, identify problematic records, and alert the hazard level
- It is an artificial intelligence software, through 298 pre-input features, intelligent analysis of the abnormal transfer situation

### **Comparing Languages**

January 2020

- Solved the Cartesian product in each of five different programming languages that Ada, Haskell, Rust, Python, Prolog, then compared the difficulty level and speed of each language

### **Logan Airport Simulation Project**

November 2019

- Used C++ language and SFML to complete simulated landings of multiple airplanes on multiple runways at Logan Airport

## EXPERIENCE

### **Yipsen Electronics Co. Ltd**

Henan, China

Technical Division Engineer assistant

April 2021 – September 2021

- Client and information security software development and maintenance, computer system network equipment. Data processing and consulting services.
- Promoted network equipment to customers and expand 463 clients in two months.

### **Luoyang Peony Research Institute**

Henan, China

IT department and maintenance Intern

July 2019 – August 2019

- Designed and maintained the webpage of Luoyang Peony Research Institute. Fix hardware problems and built secured local area network for researchers to keep their data of peony extraction safe.

### **UMASS Lowell Chinese Student & Scholar Association**

Lowell, MA

Department Member

September 2018 – September 2020

- Maintained and updated CSSA social medias, WeChat, online posts on major social media platforms.

### **UMASS Lowell Chess Club**

Lowell, MA

Club Member

September 2016 – February 2021

- Trying to help other players to improve their chess abilities by using online chess board training App.

## HOBBIES

Programming, Skiing, Chess, Drum (Jazz), Guitar(classic), Swimming, Photograph.