

ZIHAN WEI

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EDUCATION

Texas A&M University, College Station, Texas

August 2016 - May 2020(Expected)

Bachelor of Science, Computer Science

GPA: 3.3

Minor in Mathematics

SKILLS

Programming Languages: C++, Java, Python, Ruby On Rails, HTML5&CSS

Tools&Technologies: Git, SQLite, ANTRL4, Bootstrap, Linux

General: Strong time-management, Work under pressure, Passionate about learning new technologies

WORKING EXPERIENCE

CodingMarch

May.2019-August.2019

Programming Teacher Intern

Shanghai, China

- Provided a teaching experience of Python programming and USACO training at grade levels 6-12
- Developed a homework submission system with Python that is easy to use. It dramatically reduced teachers' workload

PROJECTS

Networking Website for Cadet Outfits

Product Owner

- Used **Ruby On Rails** to create a networking web application and a responsive UI with Bootstrap; used SendGrid API to send authorization emails to users; Deployed the application on **Heroku**
- Followed Agile software development, working BDD with Cucumber and TDD with RSpec.

Database Management System

Team leader

- Implemented Six engine functions(select, project, rename, set union, set difference, cross product) of relational database in **Java**
- Wrote a parser of queries using **ANTLR4** to allow the communication with DB

Dynamic Memory Allocator

- Designed and implemented a dynamic memory allocator that efficiently allocates/frees memory heap using **C++**
- Optimized it by applying single-linked list and recursion algorithm to minimize block size

Pancake Sorting Game using AI search

- Designed and implemented an AI player based on a minimax tree and depth-first search, using **C++**
- Created different versions of GUI with JavaFX, FLTK, Ncurses

LEADERSHIP EXPERIENCE

Corps of Cadets

August 2016 - Present

Scholastic officer

- Provided academic support to a 60-person outfit
- Underwent systematic leadership, military, and physical training