

Haoran Chen

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EDUCATION

Bachelor of Science Computer Science

University of Utah College of Engineering

GPA: 4.0

Graduation: May 2019

Salt Lake City, UT

Relevant Courses

Data Mining

Machine Learning

Algorithms

Database System

Software Practice I/II

Computer Organization

Graphics

Probability and Stats.

Bachelor of Electrical and Electronic Engineering with Honors

University of Manchester

May 2015

Manchester, UK

RELEVANT SKILLS

Programming Languages

C++

C#

Java

Matlab

MySQL

Python

JSP

R

Programming Environments

Visual Studio

Eclipse

Qt

Sublime 2

IDEA

RStudio

Matlab

Unreal 4

Unity

Work Environments

Windows

Linux

Software

Github

Google Drive

Trello

Microsoft Office

CTex

Prezi

PROJECTS

Machine Learning Research on Data Poisoning and Defending

Research Assistant, University of Utah

May. 2018-Current

- Strengthened skills in reading academical papers in Machine Learning Discourse
- Summarized key features of some latest papers in data poisoning area
- Presented implementations from the papers to the professor and student in the group

Game Design Tuning Method Based on PUBG Player Statistics

Data Mining, University of Utah

Jan. 2018-May 2018

- Gained experience working on large datasets from real life
- Implemented Distance Metric Learning to unify the units of all the attributes in Matlab
- Practiced how clustering and regression are used to classify and process the dataset
- Introduced a function to detect changing in coefficients of attributes to achieve similar game experience with some fixed change in several attributes

U-Uber Database Design

Database System, University of Utah

Jan. 2018-May 2018

- Designed an Uber-like database system for customers and drivers in MySQL
- Provided an API connecting and transferring data to the database in Java
- Performed a web interface for users to execute functionalities provided in html and JSP

Letter of Introduction

08/23/2018

To:
Fellow Students of CS4000
College of Science, Computer Science
University of Utah

Dear Sir or Madam,

Hello, I am Haoran Chen enrolled in CS4000 in Fall 2018. I am looking forward to enjoying the entire year with you in this course and I hope both of us will get a good grade in this class.

For the capstone project, I will be likely to do a project related to Data Science, especially machine learning. Like electricity did one hundred years ago, artificial intelligence and data analysis will bring us a more comfortable and convenient life. I am considering developing an application with machine learning technique to train with some interesting stuff and provide the users some suggestions based on what we have trained.

I have taken Data Mining, Database Systems, Computer Graphics and Probability and Statistics in the previous semesters, and I am doing Machine Learning in this semester. My major GPA is 4.0 and overall GPA is 3.95. I have the skills of processing large datasets, programming in MySQL for databases, and I am familiar to using Python and Matlab for implementing algorithms in Data Mining and Machine Learning area. During this summer, I joined in a machine learning research group with a professor and a PhD. Student, and during that time I was trained to read, understand, and implement the latest academical papers in this area. Moreover, I am proud of my speed of learning new knowledge. If I am requested to learning some new stuff, I am glad to learn it quickly.

I am planning to seek a top-level program and I am aiming to spend around 30 hours per week in the project. I will spend more time in the first semester because I will dig deep in background searching and looking for the best algorithms to achieve our machine learning target. If I need to learn some new features or algorithms during implementation, I will definitely spend more time to make it as good as I can. Based on my projects and grades received in the previous lectures, I will challenge myself in this project to produce a valuable application to be used in real life.

Please feel free to contact me via email if you are interested to work with me, or if you are willing to get a deeper understanding of me. I cannot be gladder to answer any questions or have a talk with you for the capstone project.

Yours Sincerely,

Haoran Chen

lightairlis@gmail.com