Chuanqi Sun

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Education

University of Toronto - Computer Science Specialist & Statistic Major
Honours Bachelor of Science, 2014-2019

Mainly focus in machine learning, AI and software development.

Studied about Software Design (Object-oriented), Theory of Computation, Computer Organization, Operating System, Databases, Machine learning and data mining, Methods of data analysis, Computational Linguistics (NLP), Introduction to Image Understanding, Computer Security(including protocols like TCP/IP), Programming on the Web (HTML/CSS/nodeJS), etc.

Professional Skills

- Python/Perl/Javascript/Java/R/C/C++/HTML/CSS
- SQL/NoSQL
- Android mobile and linux development experience
- git, subversion, perforce, JIRA

Employment History

ADVANCED MICRO DEVICE, Canada
ASIC Design Verification intern, May 2017 – August 2018

- Embed codes between Python/C++ to transfer data from APIs in other groups, successfully connect the Python control and graphic API with simulation processes.
- Write Perl/Python scripts to analysis the performance of data exchange. Account the total data bits transmitted in the period of time to compared with designed latency, bandwidth and burst speed.
- Visualize test information from texts to human-friendly graphs in Perl. Enhance the efficiency for first-round check to find out the unusual signals, clocks or behaviors.
- Write, Execute and maintain simulation structures and tests and debug the errors appeared. Locate the error position and primarily fix in error configurations, code and submit suspected errors to supervisor, distinct lab or test department.

Related Project

Owner, Active address book program, Face Recognition, Sept 2018 – Dec 2018

- The main function for this project is given a database of images of people, try to recognize the person name by given new picture. It will also report the approximate distance between the person and the user to avoid ambiguity.
- Implement with python, opencv/scikit-learn packages. Find out faces using faces and eyes cascade classifier, align the faces in MTCNN, preprocess with image standardization/l2 regulation, embed the images in pretrained FaceNet model and match the faces with the database using KNN/cosine similarity.
- 99% correctness in the recognition in LFW dataset and 97% in Faces94 dataset.

Leader, Dataset Trading Website, Web development, Oct 2018 – Dec 2018

- A website helps trading data among different users.
- Design implement in HTML, server in NodeJS with REST api, data direction in MongoDB.
- The webpage contains the full function of user and product manipulation and searching. It provides a convenient method to trade the data in remote service, with detailed description.
- Received positive and support reactions from most of the testers and the tutor

Collaborator, Random Restaurant Generator, Web development, Aug 2016 – Sep 2016

- A website helps you choose where to eat by randomly generating restaurants based on your location, associated with Yelp.
- Design implement in HTML and NodeJs server with REST api.
- The webpage will locate your position using Google map API and randomly select any restaurant nearby registered in the Yelp database and provide the restaurant information like the position, direction and reviews.