

AONAN GUAN

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EDUCATION

Georgia Institute of Technology

2019 – Present

Master student in ECE Computer System and Software track

Kean University

2015 – 2019

B.S. in Computer Science

Courses: Parallel Computing, HCI, Graphic Model Machine Learning, Computer Network, Data structure, OO design

SKILL SET

Git, Linux, AWS, Jenkins, Ansible, Python Django, Vue.js, SQL, DevOps, CI/CD, Trouble-shooting/monitoring

EXPERIENCE

Cisco System

April. 2020 – Oct. 2020

Intern Full Stack Software Engineer in Cisco WebEx Platform Infra team

Participate development of Configuration Management & Deployment Platform

- Integrate IaaS API and implement methods for managing AWS EC2/OpenStack/VMware cloud services' instances
- Write Ansible script for cloud service deployment and cloud service elastic scaling out for more than 5000 AWS EC2 instances
- Abstract the above API with Python Django Framework among data center and expose to both engineering and SRE operation team
- Enhance CI building pipeline, integrate docker image vulnerabilities scanning to the current approach with Jenkins
- Refactor the related frontend design from jQuery EasyUI to the cutting edge framework Vue.js with Bootstrap
- Conduct Unit test, integration test, and regression tests
- Support engineers from other teams and groups, trouble shoot on the production environment and hot fix bugs
- Compose and maintain Wiki

HayLion Tech

Nov. 2019 – Jan. 2020

Intern

Design and develop a ride-sharing transport simulation software

- Implement backend framework with SpringBoot, using state pattern to implement car state simulation
- Leverage Redis database for the IO intensive application

Compute the dispatch order parameter for share-ride service

- Consumed AutoNavi Web API and GraphHopper routine engine API
- Deserialized JSON data and conducted path planning by using geometrical mean and logit function
- Encapsulate data, designed and built RESTful API for backend consuming

PingAn Tech

June. 2019 – Aug. 2019

Intern

Design and implement a unsupervised Health State inference model leverage NLP technique

- Crawled health data through Encyclopedia and online post
- Built up triple relationship and persist the data in Neo4J Graph Database
- Parse textual data, leverage GloVe Built Health Risk inference Model based on Euclidean distance

CLASS PROJECT

- Wrote Java program for MapReduce Job, Scala program for Spark DataFrame computing, D3.js for visualization and deploy the jar package on Azure Cloud Service
- Using Intel RealSense to capture user's facial landmark for affective computing, and integrate to a emotion based C# WPF/UWP self-adaptive desktop client game
- Utilized MPI for inter-process communication, OpenMP to parallel accelerate computing to render OpenGL
- Utilized SVM/Bag of words models for sentiment analysis

PUBLICATION

- Aonan Guan, Jie Chen, Tiffany Ya Tang: "Voices of Autism": Sentiment Analysis in Three Chinese Websites on Nonverbal Autistic Children. *AICCC 2018*: 115-120 2018
- Pinata Winoto, Tiffany Ya Tang, Xiaoyang Qiu, Aonan Guan: Assisting, Not Training, Autistic Children to Recognize and Share Each Other's Emotions via Automatic Face-Tracking in a Collaborative Play Environment. *HCI (7) 2018*: 628-636 2018
- Tiffany Ya Tang, Pinata Winoto, Aonan Guan, Guanxing Chen: "The Foreign Language Effect" and Movie Recommendation: A Comparative Study of Sentiment Analysis of Movie Reviews in Chinese and English. *ICMLC 2018*: 79-84 2018
- Tiffany Ya Tang, Pinata Winoto, Aonan Guan: On Active Sharing and Responses to Joint Attention Bids by Children with Autism in a Loosely Coupled Collaborative Play Environment. *IDC 2017*: 717-720 2017
- Pinata Winoto, Tiffany Ya Tang, Aonan Guan: I will Help You Pass the Puzzle Piece to Your Partner if This is What You Want Me to: The Design of Collaborative Puzzle Games to Train Chinese Children with Autism Spectrum Disorder Joint Attention Skills. *IDC 2016*: 601-606 2016