Zhixuan Yang

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EDUCATION

University of Southern California, Los Angeles, CA   May 2019

Master of Science in Computer Science

Xidian University, Xi'an, China   July 2017

Bachelor of Engineering in Computer Science

Awards: 2017th Excellent Graduate of Xidian University

TECHNICAL SKILLS

Programming Languages: Java, C, C++, Python, VHDL

Database Technologies: SQL, MySQL

Web Technologies: CSS, HTML, JavaScript

Applications: Eclipse, WAMP, OMNeT++, Quartus II

PROJECTS

Artificial intelligence player for board game   Fall 2017

- Programed an intelligent agent for board game using java by implementing artificial intelligence algorithm: Greedy Best-first Search, Minimax and Alpha-Beta Pruning. GitHub: https://github.com/seanzx

Personal blog design   Fall 2017

- Programed a personal blog using CSS, HTML, JavaScript and MySQL based on ThinkPHP and attached an image filtering application. URL: http://zxsean.life

- Developed a personality test using jQuery and Bootstrap. Test results are obtained by matching users' gender, zodiac sign and residence information with big data. URL: http://zxsean.life/mooncake/

Design of multicast optical network in many core interconnection   Summer 2017

- Built and debugged optical devices and optical network using C++ on OMNeT++ 4.0

- Designed a routing algorithm based on Memory-Centric network(MCN) system to improve network bandwidth and reduce delay by decreasing read/write speed difference between memory system and CPU

- Ran network simulation using trace data with different pattern on Unix

Self-driving car design based on Arduino   Fall 2016

- Developed a self-driving car with remote control and ultrasonic obstacle-avoiding based on Arduino R3

- Designed and implemented a self-driving algorithm based on fuzzy reasoning using C. The algorithm improved object recognition efficiency and accuracy greatly

WORK EXPERIENCE

Software Engineer, Shenzhen Changqin Technology Co., Ltd   July 2015 - Sep 2015

- Collaborated with team of nine to develop a dynamic website for electronic commerce and built database using MySQL to store user information and commodity information

- Programed web crawler to gather transaction records using python and dealt with data visualization using R

ACTIVITIES

- National College Student Innovation and Training Program   Sep 2014 - June 2016
  Collaborated with team of three to study routing protocol and won the 2016th excellent design award of Xidian University

- Vice secretary, Huawei Fan's Club   Sep 2014 - July 2015
  Led six club members to organize activities and maintain electronic devices for promotion conferences of Huawei Technologies Co., Ltd