PEIHONG WU

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EDUCATION

Bowling Green State University (BGSU)   Bowling Green, OH
Master of Science, Computer Science   *08/2016 - 08/2018*
GPA: 3.77/4.00
- Design, verification, modeling, control, and validation of micro-robotics and micro-motors.

Language School   Bowling Green, OH

Shanghai JiaoTong University   Shanghai, China
Bachelor of Engineering in Computer Science and Technology;   *04/2012 - 04/2015*
GPA: 78.75/100

INDUSTRIAL EXPERIENCE

Shanghai Electrical Apparatus Research Institute (Group) Co., Ltd   Shanghai, China
Administrator   *08/2013 - 05/2015*
Enterprise Development Dept., Motor System Energy Saving Eng. Research Center
- Following up R&D progress, supporting R&D project coordination of the whole company
- Applying for patents, national and municipal scientific projects and financial supports according to the condition of each R&D project

Testing Specialist   *03/2011 - 08/2013*
System Energy Efficiency Testing & Inspection Branch
- Learned to use testing equipment to test motor performance, calculated and examined test data
- Took charge of testing motors and filing reports, supported R&D department for debugging and quality control

PROFESSIONAL EXPERIENCE

Master's Graduation Project: Visualization for Real-Time Water Quality Data   *01/2018-08/2018*
- This project adds visualization to an existing water quality database system, KnoWare, which allows users to collect and upload reliable scientific water quality measurements and facilitates the interpretation of the results.
- At the end, three visualization approaches are implemented: dots map, cluster marker, and heat map, with a time selection bar to visualize the water quality data within a user specified period.
- http://csvm09.cs.bgsu.edu

Computer Systems Security Projects   *01/2018-08/2018*
- Operating system to counter against the buffer-overflow attacks

Artificial Intelligence Projects using Python   *01/2017-06/2017*
- Create N-Queen games using Random Restart Stochastic Hill Climbing, Simulated Annealing, and a Genetic Algorithm. Meanwhile, solving an arbitrary sized
- https://gitlab.com/peihong/CS4200_SU2017_A3
- Othello game using the minimax algorithm and the Alpha-Beta pruning algorithm.
- https://gitlab.com/peihong/CS4200_SU2017_A4

Unity Game Project
- Collaborated with Digital Arts students and other programmers to build a well- functioning 3D adventure game

Database Project:
- Designed the database by using ER model. Manipulates and retrieves the data from database by using PHP and MySQL

Advanced software testing and verification   *08/2016-12/2016*
- Mutation test using PIT; Run the test suite generated by RANDOOP; EvoSuite Test suite generation.

Bachelor's Graduation Project: Topic: The design and test of energy efficiency testing system for Three-Phase asynchronous electric motor.
- An automated energy efficiency testing system based on Visual Basic 6.0, Access, and Excel was developed and designed.
- The system proved effective to generate energy curve and testing result of three-phase asynchronous electric motor; realized smart control, automatic analysis, chart generation, flexible inquiry, and report print function; and greatly increased stability and preciseness and reduced operational difficulty of motor efficiency testing

SKILLS

Programing Language: Java, JavaScript, Python, VB Basics
Database: SQL
Testing: PIT, RANDOOP
Web design: PHP, JavaScript, HTML
Others: CAD, Office