
SKILLS, PATENTS & PUBLICATIONS

SKILLS: *Python, Java, JavaScript, C, HTML, CSS, MATLAB, MySQL, JMeter, JSON, Postman, Markdown*

PAT: *Indoor Positioning Method based on Weighted Surface Fitting from Crowdsourcing [P].* NO.: CN 109059919 A

Radio Map Construction Method based on Virtual Source Estimation & Tra. Correction [P]. NO.: CN 108919177 A

PUB: *Indoor Localization Based on Weighted Surfacing from Crowdsourced Samples [J].* Sensors 2018, 18(9), 2990.SCIE.

Microgrid Simulation System [J]. Electronic Engineering & Product World, Sep2018

EXPERIENCE

Software Quality Assurance (QA) Developer Intern | Shanghai ByteDance Technology Co., Ltd. 03/2019-08/2019

- Designed and built a continuous platform by Jenkins in JAVA for automated testing in the large-scale system
- Implemented automated test evaluation by using multi-process in Python and achieved 16 times accelerate on 1,400,000 data
- Tested various algorithms in OCR text recognition, image recognition and data mining, reduced 5 times manpower in 3 systems
- Expertly utilized tools to track bugs, write test cases, report results, website inspection, etc.
- Collaborated with business and development team to prioritize assignments and manage risks/issues to ensure successful delivery with high quality, successfully launched 6 public web services in total

Electromagnetic Compatibility Lab | Research Intern | Missouri University of Science and Technology 07/2018-10/2018

- Led the research of the world's leading technology, Emission Source Microscopy, under supervision of Prof. Victor Khilkevich
- Designed SLAM algorithms to realize real-time positioning by using Kinect V2, and achieve 0.2 cm accuracy
- Wrote MATLAB programs for robust UDP transmission with Vector Network Analyzer
- Implemented MATLAB programs for real-time source plane estimation with friendly GUI

Project of HUIYAN Classroom Intelligent Monitor System | Software Developer | HUST 05/2017-06/2019

- Led a project called HUIYAN Classroom Intelligent Monitor System, which monitored the ongoing class of K12 and intelligently analyzed the collected information, for the sake of making suggestions for teachers
- Collected massive video data of teaching in real classroom and established multi-behavior dataset
- Designed convolution neural network in Caffe framework for behavior detection, and achieved 92.8% system accuracy

Project of PIPILONG Music | Software Developer | HUST 03/2017-06/2019

- Employed signal processing to analyze spectrum to guide the children to play piano
 - Implemented application on iOS by using Swift with beautiful and friendly GUI
 - The resulted APP is uploaded to Apple store, and is downloaded more than 350 times
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ENTREPRENEURSHIP

Startup Team of Mental Pressure Manager | Product Manager | HUST 09/2017-03/2018

- Complete the design of "Mental Pressure Manager", a biotechnology-based medical hardware device targeted to detect the psychological pressure by cortisol through the strip test
 - Collaborate with teammates with biomedical background to design the structure of the product and following iteration
 - Started up the Huace Kangnuo (Wuhan) Biotechnology Inc. for the product
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COURSE DESIGN

Artificial Intelligence & Software Course | Student Participant | HUST 02/2018

- Developed an AI teaching platform to help students in Q&A
- Constructed the database with Python and wrote algorithms with machine learning

Communication system implementation on ADALM-PLUTO SDR | Student Participant | HUST 01/2018

- Developed communication system with Pluto Software Defined Radio
 - Utilized MATLAB to write programs and algorithms to realize simple protocols
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EDUCATION

University of Massachusetts Boston | Master of Science | Computer Science 09/2019-06/2021

- Key Coursework: Analysis of Algorithms, Database Application Development, Database-Backed Web Services, Compilers;

Huazhong University of Science and Technology | Bachelor of Eng. | Telecommunications Engineering 09/2015-06/2019

- Key Coursework: Computer Programming in C, Java Programming, Computer Networks, Analog Circuit and Digital System;