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WAN ZHANG

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EDUCATION

Master(recommend)	**Beihang Univ.**	**Computer Science**	**Sep, 2011-present**
Bachelor	Beihang Univ.(Advanced Engineering)	Artificial Intelligence	Sep,2007-Jul,2011

SKILLS

- **Proficient in Machine Learning Theories**, skilled in video detection analysis, image quality assessment.
- **Proficient in Software Testing Technology**, familiar with software testing process.
- Familiar with PostgresSQL technology, Hadoop Ecosystem, Ganglia, RRDtool .

LANGUAGES

- Familiar with C/C++, Python, matlab. Used Java, C#.net.
- Familiar with windows/Linux/Mac development environment.
- Excellent reading and writing skill, fluent in spoken English: Pass CET-6(577), GRE(1440).

EMPLOYMENT

Software QA **EMC [2]** **Nov, 2012-present**

- Improved the system testing framework, which supports data loading and workload execution seperative, concurrency of different workloads execution, workload performance comparison.
- Completed the deployment automation of HAWQ products with customized configuration.
- Responsible for the deployment of Ganglia distributed monitoring system deployment and RRD data backup.
- Monitored periodic system tests, contributed for 55 percent of bugs in system testing.
- Participate in the design and implementation of HAWQInputformat feature tests.

Software QA **Adobe** **Sep, 2012-Nov,2012**

- Participated in the automation of SiteCatalyst feature tests by using WebDriver.

Algorithm Engineer **Sony Lab** **Mar, 2012-Sep, 2012**

- Implemented a photo quality assessment algorithm using multi-cue feature combination, Accuracy 89.5%, Precision 88.2%, Recall 92%, AUC percentage 96%.
- Built app for photo quality scoring based on that; got prize from the leader in Japan.

TECHNICAL EXPERIENCE

Video Surveillance System(Aug, 2010-present)

Video analysis module

- Designed small-scale pedestrian(18*36~25*50 pixels) recognition algorithm based on global-local integrated model: Accuracy 86.7%(10% ↑), Precision 85.3%, Recall 81.5%(30% ↑), AUC percentage 93.2%(11% ↑).
- Designed pedestrian recognition algorithm with partial occlusion based on body structure and image segmentation: Accuracy 81.6%(13% ↑), Precision 84.1%(2% ↑), Recall 77.8%(36% ↑), AUC percentage 90.2%(18% ↑)

Sensor control module

- Implemented multi-channel sensor control and radar-sensor joint control .

PUBLICATION

- **"Pedestrian detection based on background modeling and Head-shoulder Recognition"** is accepted by 2012 International Conference on Wavelet Analysis and Pattern Recognition (ICWAPR) , indexed by EI.

ADDITIONAL EXPERIENCE AND AWARDS

- **First-class postgraduate scholarship(Sep, 2011-Sep, 2012)**
- **First Prize, MCM 2010:** Locate the sweet spot of bat ball by using modified cellular-automata and Generalized Regression Neural Network (GRNN) algorithm.
- **Other awards:** National Scholarship, Learning Excellence Award, School Outstanding Graduates.