YUGUANG LI

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OBJECTIVE

A position in the field of web or software development with special interests in using and learning all kinds of new and innovative cutting-edge techniques

EDUCATION

Boston University, College of Engineering Boston, MA

September 2011 - May 2013

Master of Engineering in Electrical Engineering, GPA: 3.77/4.00

Master's Project: "Cloud-based Cyber Services for Smart Lighting"

Xi'an Jiaotong University Xi'an, Shaanxi, P.R. China

September 2006 - July 2010

Bachelor of Engineering in Automation Engineering, GPA: 85/100; SiYuan scholarship

Thesis: "The Wind Turbine Failure Predictions and Diagnostic Monitoring"

EXPERIENCE

RapidSOS,LLC Software Engineer May 2014 - Present

Boston, MA

- · Writing testings for telephony stuff with SIPp (in progress)
- · Working mainly on the backend using python and Django frameworks and telephony stuff
- · Participated to implement the REST APIs and QA testing for the backend with Django REST framework
- · Arranged for the Asterisk telephony server behind Nginx using HTTPs
- · Designed the Class-based automated message generate modules for Interactive Voice Response(IVR)
- · Implemented the telephony applications on asterisk server by python and Asterisk REST APIs
- · Implemented the interconnection library to interacts with the partner's APIs

The Laboratory of Networking and Information Systems

Research Assistant on Prof. David Starobinski's team

June 2013 - March 2014 Boston University, Boston, MA

- \cdot Helped to research mainly on topics of Networking and Cyber Security
- \cdot Established a lab curriculum for graduate course EC521: Cyber Security
- · Designed the course contents: SQL injection, password cracking, nmap, network attacks and Snort
- · Arranged for the lab environment with Kali Linux and Metasploitable2 under VMware Workstation

The Network-based Complex System Control Lab

October 2010 - July 2011

Research Assistant on Prof. Dejun Mu's team

Northwestern Polytech. Univ., Xi'an, China

- · Worked mainly in mathematical modeling, algorithms design and simulations in Matlab
- · Established a dynamic transmission algorithm based on feedback and buffers on the server-side
- · Proposed the probability model of the E2E and SCF mechanisms
- · Simulated and Verified the above transmission systems

PROJECTS

Lab Curriculum Design for Computer Cyber Security

June 2013 - September 2013 Boston University, Boston, MA

The Laboratory of Networking and Information Systems

- · Designed the lab curriculum for a graduate course: EC521 Cyber Security
- · Chosen the lab environment and two VMs: Kali Linux and Metasploitable
- · Tested all the designed labs and drafted the lab details
- · Presented a paper according to this project at CISSE 2014, June, San Diego, USA

Cloud-based Cyber Services for Smart Lighting Master's project

April 2012 - April 2013 Boston University, Boston, MA

- · A Master graduation project for an intelligent lighting system design using Java
- · Compared the existing Cloud services and came up with an optimal solution: Amazon Web Service
- · Designed multithread chat server and socket communication between client and server
- · Designed and implemented the front end using HTML5, CSS3 and Javascript
- · Deployed the web application onto Cloud with sample database and tested all the functions

Outlier Color Identification for Search and Rescue Course of Digital Imaging Processing

September 2012 - December 2012 Boston University, Boston, MA

- · Characterized the Mathematical Model of the images as Markov Random Model with Gibbs distribution
- · Designed and implemented Outlier Color Indentification algorithm based on the Markov Model
- · Applied the algorithm to different kinds of sample images and improved the performance

The Embedded Audio-Video Transmission System for WLAN

November 2010 - April 2011

The Laboratory of Network-based Complex System Control

Northwestern Polytech. Univ., Xi'an

- · Proposed a dynamic transmission algorithm based on feedback and buffers on the server
- · Implemented above self-adaptive algorithm on the server-side
- · Verified the better QoS of the improved transmission system

Packet Reachability of VANET in Bidirectional Road Scenario May 2010 - November 2010

The Laboratory of Network-based Complex System Control Northwestern Polytech. Univ., Xi'an

- · Proposed the probability model of the E2E and SCF mechanism
- · Compared the packet reachability between E2E and SCF
- · Simulated the models using Monte Carlo method in Matlab

The Wind Turbine Failure Predictions and Diagnostic Monitoring October 2009 - July 2010 Bachelor's Thesis Xi'an Jiaotong University, Xi'an

- · Polished and Integrated the existing neural algorithms to the Wind Turbine System
- · Designed Failure Prediction and Diagnostic Monitoring control panel by MFC
- · Verified the prediction algorithms and system with sample databases for LAN

TECHNICAL STRENGTHS

Compile Languages

Scripting & Other Languages

Operating Systems

Databases & Tools

Protocols & APIs

Servers & Cloud

Frameworks & Architecture

Java, C

Python, PHP, Javascript; HTML, XML, JSON, CSS

Linux, Kail Linux, OSs with Unix kernel, Windows

Postgres, MySQL; Git, Vim, Matlab, Wireshark, Pentesting Tools

HTTP, HTTPS, SIP, RTP; jQuery, google APIs

Nginx, Gunicorn, Apache2, Tomcat7, Asterisk; AWS, DigitalOcean

Django, Strut2, Spring, Bootstrap; REST

PUBLICATIONS

Yansu Hu, **Yuguang Li**, The QoS Research of H.264 Video Transmission in Embedded Wireless LAN, Computer Science(ISSN 1002-137X), vol.38, no.5, pp.83-85, 2011

Panguo Fan, **Yuguang Li**, et al, Packet Reachability of VANET in Bidirectional Road Scenario, 12th IEEE International Conference on Communication and Technology, Nov. 2010