Re: Research Scientist II / Team Lead, Outreach & Faculty Interaction (PVA# 37221) (Job Number: 0175659)

Dear HR Recruiter:

I was excited to see your opening for Research Scientist, and I hope to be invited for an interview.

I am a Ph.D. candidate in computer science. My interested research area includes performance bottleneck tuning, distributed system security, cloud security, virtual cluster management. I will graduate in December 2017. The most remarkable achievement of which I can be pride, is that I finished my Ph.D. project for only two years and a half. During the last two years, I not only obtained the enough credits, but also achieved prominent research results, including strong publication records in computer science conference, e.g., [ACM CCS](https://monadyn.github.io/Papers/Tail-Att-camera.pdf) (top tier computer security conference), [EAI SecureComm](https://monadyn.github.io/Papers/secureComm-VSIDDoS-camera.pdf).

During 2016, I worked in [SIMULOCEAN](http://xsede.simulocean.org/) project, a web-based computing platform for high-performance computing applications on container technology, as a developer in [LSU Center for Computation and Technology](https://www.cct.lsu.edu/). My primary responsibility is to build up and manage virtual clusters on the public cloud (Amazon EC2 and ECS) and private cloud (Openstack, Docker) for rapid sharing and integration scheduling of simulation applications and computational tools (MPI Jobs, e.g., Coastal Model SWAN, Delft3D, etc.) among connected communities. The detailed introduction can refer to white paper  [“](https://figshare.com/articles/management_and_deployment_of_scientific_applications_with_simulocean_science_gateway/4522631)[Enabling Multidisciplinary Collaboration with Containerization Technologies](https://monadyn.github.io/Papers/simulocean.pdf)” and Poster  [“Management and Deployment of Scientific Applications with SIMULOCEAN Science Gateway”](https://figshare.com/articles/management_and_deployment_of_scientific_applications_with_simulocean_science_gateway/4522631).

Previously, I worked in infrastructure group of [Spreadtrum Communication Inc](http://www.spreadtrum.com/en/index.html)., a top semiconductor company, for nearly 10 years (2006-2015). My primary work goal is improving work efficiency by building tools. To this end, I took part in and led to accomplish several projects, including real-time traceability, software development test automation (e.g., [iBuild and iTest](http://www.spreadtrum.com/cn/center.html)), data mining from Bug management database (e.g., [iBugzilla](https://monadyn.github.io/img/iBug.jpg)) and telecommunication protocol log files (e.g., [iLog](https://monadyn.github.io/img/iLog.jpg)). In these positions, I demonstrated the ability to analyze the requirements of end-users and quickly design and implement via various computer languages.

Please see the accompanying resume and my website <https://monadyn.github.io/> for details of my research and work experiences.  I am confident that I can offer you problem-solving skills through computers you are seeking.  Feel free to call me at 2255-888-8938 (cell) to arrange an interview or send an email [monadynshy@outlook.com](mailto:monadynshy@outlook.com).

Thank you for your time—I look forward to learning more about this opportunity!

Sincerely,

Huasong Shan