Kui Wang

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Profile

A passionate and skilled computer software engineer seeking for career opportunities in information visualization and visual analytics for biomedical research.

- Technical skills: JavaScript, D3.js, Python, C, C++, R, MATLAB, Haskell, ArcGIS.

Education

Master of Engineering, Computer Science Sept. 2015 – Jun. 2016

Oregon State University, Corvallis, OR, USA

- Courses: Algorithms & Data Structures, Database Management System, Computer Architecture, Parallel Programming, Operating Systems, Computer Graphics, Computer Vision.

Bachelor of Science, Geographic Information System Sept. 2009 – Jun. 2013

China Agricultural University, Beijing, China

- Courses: Digital Image Processing for Remote Sensing, Principles of Digital Surveying and Mapping, Spatial Analysis, Photogrammetry, Principle of Remote Sensing, GPS Principle.

Experience

Research Trainee Dec. 2016 – Present

Mayo Clinic, Department of Health Sciences Research , Rochester, MN

- Design and implement interactive online visualization tools for high-dimensional data in healthcare.
- Develop interactive visualizations of biomedical data model and geographical information.
- Demo can be found at https://wangku.github.io/Visualizations/KuiWang.html.

Remote Sensing Internship May. 2013 – Jun. 2013

Ministry of Land and Resources, Land Management Center, Beijing, China

- Collect remote sensing data from the entire country and conduct accuracy analysis.
- Process remote sensing data with ArcGIS and field studies to determine land use types.

Projects

Solar System Engine Sept. 2015

- Realize a 3D animated solar system simulation by using OpenCL and OpenGL.
- Design a particle system with concept of parallel programming to present the comet tail in an ellipse orbit.

Automated System Testing Jun. 2016

- Implement the fuzz testing modules running in qeum Linux system kernel to automatically detect coding errors and security loopholes.

Publications

Shen, S., **Wang, K.**, Shen, Z., & Zhao, M. (2013). *Design and implementation of invasive alien plants online survey system based on Google Maps.* Journal of Central South University (Science and Technology), S1.