Yang LIU

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EDUCATION

Hong Kong University of Science and Technology   **09/2012-08/2014**

MPhil in Computer Science   GPA 3.98/4.3

Thesis: Large-scale visualization of 3D urban reconstruction

Advisors: Prof. Long Quan and Prof. Huamin Qu

Hong Kong University of Science and Technology   **09/2008-06/2012**

BSc in Biochemistry with minor in IT (First Class Honor)   GPA 3.95/4.3

University of California, Berkeley *(exchange student)*   GPA 4.0/4.0   **01/2011-05/2011**

PUBLICATIONS

- Guodao Sun, **Yang Liu**, Wenbin Wu, Ronghua Liang, Huamin Qu (2014). Embedding Temporal Display into Maps for Occlusion-Free Visualization of Spatio-temporal Data. *PacificVis*, 185-192.

WORK EXPERIENCE

Altizure.com   **04/2015-Now**

Full Stack Developer   Hong Kong

- Architected, prototyped and implemented a web platform from scratch as the very first developers in the team, which now grew from 0 to more than 7000 activated users. (Node.js, MongoDB, React, WebGL)
- Developed a cross-platform web viewer for loading and viewing large-scale 3D reconstruction map of $100km^2$ in area, which employed Level of detail rendering based on a quadtree to maintain interactive framerates across all platforms, as well as various compression methods for fast loading.
- Proposed and developed numerous business features from front-end to back-end, including everything you can see when you visit the website.
- Built a desktop viewer on Windows, Mac and Linux for downloading 3D models and viewing offline.
- Involved in building a distributed system running reconstruction jobs in parallel on an in-house cluster.

Microsoft (China)   **09/2014-04/2015**

Software Development Engineer (SDE)   Beijing, China

- Developed a cooking pipeline to process huge volumes of SharePoint server log (PB per log per day) on *MapReduce* clusters and provided clean, valid data through data API for internal teams to do analytics.
- Implemented active monitoring to automatically check scheduled job running time and ensure data quality in the above cooking pipeline, in order to meet the SLA level of 99.9%.
- Maintained more than 100 daily jobs in Office data pipelines and provided support on data issues.

AWARDS AND HONORS

Postgraduate **Studentship**	2012-2014
HKUST **Academic Achievement Medal** – *Top 1% undergraduates*	06/2012
University **Scholarship**, School of Science **Scholarship**, D H Chen Foundation **Scholarship**	2008-2012
HKUST **Dean's List**	2008-2012
Gold Medal in International Genetically Engineered Machine Competition (iGEM)	11/2010
Silver Medal in International Genetically Engineered Machine Competition (iGEM)	11/2009

ADDITIONAL INFORMATION

Programming Languages	**JavaScript, C#, C++**
Language Skills	**English**-*Fluent*, **Chinese**-*Native*