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Experience

Feb 2015- Full Stack Engineer, Onion Math, Beijing, China.

- June 2015 O Developed the webpages for teachers to manage student and class information, view students' learning data and assign homework
 - Worked on both front-end and back-end with JavaScript, AngularJS, D3.js, Node.js, Express, MongoDB, Nginx
 - o Full-stack data analytics: Data Schema Design, Data Processing, RESTful API Design, Data Visualization

Sep 2014- Full Stack Engineer, Volunteer, Sunshine Library Rural Digital Education Initiative, Beijing, China.

Jan 2015

- o Designed and developed the management system for teachers to manage student information, manage student's tablet login and apps, distribute and share teaching materials
- Worked on user study, UI design, front-end and back-end development all by myself
- Will benefit hundreds of teachers and students in the pilot schools of rural area China
- 2013–2014 Research Assistant, Center for Educational Informatics, North Carolina State University, Raleigh, US.
 - o InVis Project: Helped designing the new interface of an educational data visualization software InVis, and built a module to process data from a physics tutor Andes for InVis
 - o Student Performance Prediction: Predict student future performance on PSLC DataShop dataset using Bayesian Knowledge Tracing model and its variants
- 2012–2014 **Teaching Assistant**, Computer Science Department, North Carolina State University, Raleigh, US.
 - o Teaching Assistant in Introduction to Algorithms, Multimedia Technology, Introduction to Numerical Methods

Projects

Total Recursion Educational Game: Designed and built an educational game using Unity3D to help students gain a deeper, conceptual understanding of recursion

Tempest: Built a video game Tempest using C++ and OpenGL

3D Campus: Worked on a group project to build 3D Model of university campus and implement features such as navigation, 3D wandering, and building indexing

Multi-view Visual Search: Worked on a project to do multi-view image search using Scalable Vocabulary Tree with Hierarchical TF-IDF scoring on Caltech256 database

RoboGame: Worked on a team project to build a remote-controlled humanoid robot and an automatic flat car robot in the RoboGame Competition of University of Science and Technology of China

Skills

Programming Python, JavaScript, HTML/CSS, Matlab, Java, C/C++/C#

Others AngularJS, D3.js, Node.js, MongoDB, 3DMax, Unity3D

Education

2012–2014 North Carolina State University, Raleigh, US.

PhD Student (quit), Computer Science

2008–2012 University of Science and Technology of China, Hefei, China.

Bachelor of Science, Electrical Engineering

Interests

Biking Biked across America from San Francisco to Washington DC with OneWay Foundation to raise money for Free Lunch for Children organization in China

Running Run in 2013 Raleigh the City of Oaks Marathon, 2012 Yangzhou International Half Marathon and 2011 Beijing International Marathon