Puran Zhang

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Education

Cornell University, *Ithaca, NY* — Spring 2017
Master of Professional Studies (MPS)., Information Science — GPA: 3.65/4.00

University of Richmond, *Richmond, VA* — Fall 2012 - Spring 2016
B.S., Mathematics & B.S., Psychology, Minor in Computer Science — Cum Laude, Mathematics GPA: 3.92

Relevant coursework: Operating Systems; Computer Graphics; Machine Learning; Data-driven Web Applications (Spring 2017) • Database System • Algorithms • Operations Research • Numerical Analysis • Abstract Algebra

Relevant Project

MPS Project - "Keep talking or explodes", *Cornell University* — Fall 2016

- Led the team and implemented a real-time web-based messaging app with Node.js and Socket.io, which allows researchers to modify features such as "is typing" indicators.
- Designed the user interface of the messaging app with HTML5/CSS3.
- Modified the C# core code of the game *ktane*, which allows researchers to generate customized bomb for studies.

Natural Language Processing, *Cornell University* — Fall 2016

- Question Answering System
  - Integrated logistic regression model that trained and extracted candidate answers.
- Word Embedding in Topic Classification
  - Trained word clusters by applying mini-batch k-means algorithm on a google news word2vec model.

Human-Computer Interaction - "Go Healthy", *Cornell University* — Fall 2016

- Led and managed the "User-centered design" process for designing a nutrition-based food recommendation app that followed the *CHI 2017* guideline.
- Implemented Hi-Fi prototype using Sketch and InVision.

Online RPG game, a classwork extension project — Spring 2016 - Present

- Implemented login/register page (check mal-input and interact with back-end database with PHP).
- Built partial battle page/functionalities with PHP and AJAX (mainly Item system of characters).

Academic Research

Undergraduate Researcher, *Crawford Lab in Psychology, University of Richmond* — Spring 2014 - Spring 2016

- Implemented UDK scripts (Kismet), constructed and created virtual reality mazes in UDK for navigation research project.
- Researched/implemented solution for nausea problems with first Oculus Rift Developer Kit (DK1).
- Created batch files and Arduino, and predigested the navigation research's procedure.
- Presented works at 2016 Eastern Psychological Association Conference, NYC.

Skills

Java, Python, SQL, LaTeX, Matlab, SPSS, git, Sketch

**Highlighted texts point to associated pages and files.*