

Puran Zhang

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SUMMARY

Recent graduate from Cornell University with Master's in Information Science. I have experience with web development, JavaScript, Node.js and D3.js. I also worked on NLP projects with Python. I have an inquiring mind and obsessive curiosity for technology. Open to relocation for software engineer roles.

Relevant skill: Java, Python, JavaScript, D3.js, HTML, \LaTeX , git, Sketch

EDUCATION

Cornell University, Ithaca, NY AUG 2016 - AUG 2017
Master (MPS), Information Science GPA: 3.44/4.00

University of Richmond, Richmond, VA AUG 2012 - MAY 2016
B.S., Mathematics & B.S., Psychology, Minor in Computer Science Cum Laude, Math GPA: 3.92

Relevant coursework: Machine Learning • Data-driven Web Applications • Computer Graphics • Natural Language Processing • Database System • Algorithms • Operations Research • Numerical Analysis • Abstract Algebra

EXPERIENCE

Research Assistant - Temporal Word Embeddings, Cornell University MAY - AUG 2017

- Quantified changes of words' meanings in politics, by fitting a *Dynamic Embeddings* model on political comments on Facebook with *TensorFlow*.
- Optimize query performance, by applying aggregations on comments data in our MongoDB database.

SCHOOL AND PERSONAL PROJECTS

Data Visualization, Cornell University JAN - MAY 2017

- **"Rabbling"** - Babies' vocabulary development
 - Implemented linear regression from *wordbank* with JavaScript.
 - Designed the visuals with Sketch and HTML.
- **The Century of Movies** - Dynamics of movies in 1916 - 2016
 - Massaged the IMDb data (Kaggle), and implemented the framework and JavaScript functions with *D3.js*.

"Keep talking or explodes" - MPS Project, Sue's Lab at Cornell University AUG - DEC 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.

Question Answering System - Natural Language Processing, Cornell University AUG - DEC 2016

- Integrated logistic regression model that trained and extracted candidate answers with Python.

Online RPG game, A database integration project APR - AUG 2016

- Co-designed the game (balancing and pacing) and structure of implementations.
- Implemented login/register page (check mal-input and interact with back-end database with PHP).
- Built partial battle page/functions with PHP and AJAX (mainly Item system of characters).