

Puran Zhang

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EXPERIENCE

Software Engineer Consultant - *Riverside County Office of Education, CA* APR 2018 - PRESENT

- Built timesheet web components, which served over 400 schools and districts, with AngularJs and Grails.
- Prototyped and developed information-display popup widget, which unifies UX on functional cells.
- Contributed to Angular incremental upgrade plan with componentized directives.
- Refactored error parsing service to accommodate general error field codes.
- Automated rule-based data conversion in PL/SQL and grails service, and directly contributed to solving the performance issue on loading timesheet with pre-calculation, which reduced runtime by 30%.

Research Assistant - *Temporal Word Embeddings, Cornell University, NY* MAY - SEPT 2017

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

EDUCATION

Cornell University, Ithaca, NY AUG 2016 - AUG 2017
MPS, Computing and 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: 3.92/4.00

Relevant coursework: Machine Learning • Data-driven Web App • Computer Graphics • Natural Language Processing

SCHOOL AND PERSONAL PROJECTS

BangumiN - A progressive web client for [Bangumi](#), a IMDb-like social network. APR 2018 - PRESENT

- Built and shipped an i18n-ready app that deeply integrates with DynamoDB and Beanstalk in AWS, and tracks user progress of shows with a peak of 1000+ daily active users.
- Built a D3.js-based data visualization toolbox of users and subjects' descriptive statistics, with Angular 7, TypeScript, ngx-chart and Node.js.

Data Visualization, Cornell University JAN - MAY 2017

- **"Rabbling"** - Babies' vocabulary development
 - Implemented linear regression from [wordbank](#) with JavaScript; And designed the visuals with Sketch.
- **The Century of Movies** - Dynamics of movies in 1916 - 2016
 - Massaged the IMDb data (Kaggle) and implemented the framework with JavaScript and 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.

Relevant skill: Angular, JavaScript, TypeScript, Grails, Java, Python, D3.js, ~~TEX~~LaTeX, git, Sketch