Puran Zhang

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puranzhang.me   Github

EXPERIENCE

Full-stack engineer (contract) - Galaxy ERP System, *Riverside County Office of Education, CA*   APR 2018 - PRESENT

- Built timesheet web components, which served over 400 schools, with AngularJs and Grails.
- Prototyped and developed information-display popup widget with Angular directives.
- Directly contributed to solving the performance issue on loading timesheet with pre-calculation.
- Contributed to the incremental upgrade plan to componentized directives; released over 30 bug fixes across front-end and back-end frameworks.

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, 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 Applications • Computer Graphics • Natural Language Processing • Database System • Algorithms • Operations Research • Numerical Analysis • Abstract Algebra

SCHOOL AND PERSONAL PROJECTS

BangumiN - A progressive web client for Bangumi, an ACG social network.   APR 2018 - PRESENT

- Prototyped and built data visualization toolbox of users and subjects' descriptive statistics, with Angular 6, ngx-chart and Node.js.
- Contributed to service constructions including authentication and user settings.

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.

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