

# Puran Zhang

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## EXPERIENCE

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**Frontend Engineer II** - *Amazon Web Services (AWS), WA* MAY 2020 - PRESENT

- Delivered various features for infrastructure as code at AWS, including public registry experience for CloudFormation.
- Worked effectively on on-call rotation while focusing on operational excellence.
- Utilized front-end expertise to deliver and upgrade key portions of front-end infrastructure.

**Software Engineer Consultant** - *Riverside County Office of Education, CA* APR 2018 - APR 2020

- Built timesheet, expense and payroll management modules in web-based ERP system that serves over 400 districts and schools, with Angular, Grails and PL/SQL.
- Prototyped, developed and shipped information-display popup interface, which unifies UX on functional cells.
- Contributed to Angular incremental upgrade plan with Observable pattern and componentized directives.
- Built and launched Whitelisting service as a backend interceptor, that filters malicious data traffics based on configured column data models.
- Refactored error parsing service to accommodate different error object structures, form field error codes, and directed error handling instructions on UI.

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

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

## EDUCATION

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**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

## PERSONAL PROJECTS

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**BangumiN** - A progressive web client for [Bangumi](#), an 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.

*Relevant skill:* React, JavaScript, TypeScript,  $\text{\LaTeX}$ , git, Sketch