

Peng Dong

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Academic Project

Real Time News Recommendation System

April. 2018 - Present

- Implemented a data pipeline which monitors, scrapes and dedupes latest news (MongoDB, Redis, RabbitMQ, TF-IDF).
- Built a single-page web application for users to browse news (React, Node.js, RPC, SOA, JWT).
- Implemented a click event log processor which collects users' click logs, then updates a news preference model for each user (NLP).
- Designed and build an offline training pipeline for news topic modeling (Tensorflow, DNN, NLP);
- Deployed an online classifying service for news topic modeling using the trained model.

Collaborative Online Judge System

March. 2018 - April. 2018

- Implemented a web-based collaborative code editor which supports multiple user editing simultaneously (ACE, Socket.io, Redis).
- Designed and developed a single-page web application for coding problems (Angular2, Auth0, Node.js, MongoDB).
- Built a user-code executor service which can build and execute user's code (Docker, Flask).
- Refactored and Improved system throughput by decoupling services using RESTful API and loading balancing by Nginx.

Music Streaming Service Website (NodeJS)

Nov. 2017 - Dec. 2017

- Built the back-end service using the Koa framework of NodeJS, implemented the keyword search and popular songs and user display functions combined with the PostgreSQL database.
- Using the Bootstrap and CSS combined with the Nunjunks template engine to implement the front-end interface display.

Blog Management System (PHP)

Sep. 2017 - Nov. 2017

- Built the back-end development platform using PHP, implemented user login and articles publish, deletion, modification and search functions.
- Designed and implemented the web front end and interact with the backend through the MySQL database.

Chatting Program implemented with C/S Architecture (Java)

Nov. 2016 - Jan. 2017

- Built the chat room's server, client and information processing modules using Java socket.
- Design and implement network communication between client and server based on TCP protocol.

Work Experience

MJHS Institute for Innovation in Palliative Care

Dec. 2017 - Present

E-LEARNING AND WEB OPERATIONS INTERN

New York, NY

- Maintained the Institute's websites, as well as its learning management system.
- Developing new function for the back-end.

New York University

Oct. 2016 - Present

GRADUATE ASSISTANT, ELECTRICAL AND COMPUTER ENGINEERING

New York, NY

- Assist course professor to make and browse the slides of smart grid, assign homework and grade.
- Researched on the influence factor of renewable energy.
- Modeled on DC/AC optimal power flow under security constraint with Julia language

Education

New York University

Sep. 2016 - Excepted May. 2018

M.S. IN ELECTRICAL ENGINEERING

GPA: 3.6 / 4.0

- Got scholarship from 2016 to 2018

North China Electric Power University

Sep. 2011 - June. 2015

B.S. IN ELECTRICAL ENGINEERING AND ITS AUTOMATION

GPA: 3.4 / 4.0

- Excellent Undergraduate Scholarship and 3rd Prize (National College Mathematical Contest in Modeling)

Professional Skills

Language & Framework Javascript, Java, Python, Julia, NodeJs, Angular2, React, Express

Database & OS MySQL, PostgreSQL, MongoDB, Redis, Linux, Git, Docker