Zhuoran Yu

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EDUCATION

Georgia Institute of Technology

Aug. 2016 – Dec. 2018 (expected)

- M.S in Computational Science and Engineering (GPA: 3.84 / 4.0)
- Selected Courses: Computer Network, Database Systems, Machine Learning, Mobile Apps and Service, Simulation and Modeling (Teaching Assistance), Operating Systems, Intro to Java Programming

Peking University

Sept. 2012 – June 2016

• B.E in Energy Resources Engineering (Rank 4 / 19, GPA: 3.55 / 4.0)

WORK EXPERIENCE

Electronic Arts Inc.

May 2018 – Aug. 2018

Software Engineer Intern

Austin, TX

- Worked in Data Platform to build a web application from scratch to expedite data ETL development. The app provided an efficient Hadoop Oozie generation workspace for EA data ETL team;
- Developed a web UI with multiple complex functional forms and tables for users to develop ETL task, replacing manual efforts in Editor with ~4 times more efficiency. (Angular 6)
- Built a backend server with RESTful APIs and services to provide game data query and Oozie generation by parsing SQL and configuration from JSON with Java template API. (Spring Boot)
- Optimized MySQL table structure and JSON serialized/deserialized method to map ETL metadata to database. This saved more than 70% storage with flexible database schema. (JPA, MySQL)
- Conducted unit test for repository, service modules and MVC layer to ensure app work as expected.
- The application successfully saved 80% ETL development time and reduced 100% semantic error.

XtalPi Inc.

Jun. 2017 – Aug. 2017

Machine Learning Engineer Intern

Beijing, China

XtalPi is a pharmaceutical technology company to provide cloud-based computational service for drug Industry.

- Worked in the algorithms group to develop machine learning algorithms to predict molecule properties.
- Implemented matrix based and bag-of-words based model to extract features for data pre-processing.
- Developed machine learning algorithms of Kernel Ridge Regression, Random Forest, ElasticNet and Bayesian Regression to predict properties based on experiment data. (NumPy, SciPy, scikit-learn)

SELECTED PROJECTS

IoT Mobile App for Plants Lover http://plantism.herokuapp.com/index.html

Jan. 2018 – May 2018

- Designed and developed a mobile app with wireless sensor to provide remote monitor and care instruction for plant lovers in a team of six, including UX designers and product manager.
- Built an Arduino sensor module to collect plant soil monitoring data and uploaded to server. (Firebase)
- Led the Development of the **Android** app for both UI and backend. The app bound sensors and fetched monitoring data from Firebase to provide real-time alert, growth trend visualization and care tips.
- Implemented relational/NoSQL database (SQLite/Realtime Database) to store user and plants data.

MapReduce Distributed System Infrastructure

Sept. 2017 - Dec. 2017

- Designed and Implemented a simplified version of MapReduce infrastructure for local machine.
- Implemented master process with dispatch algorithms to maintain the intermediate file information in local disk and manage worker server to execute map/reduce tasks by remote procedure call. (gRPC)

SKILLS

Programming Languages: Java (Primary), Python, C/C++, JavaScript, Typescript, HTML5/CSS, SQL **Web & Mobile Development:** Spring Boot, Node.js, Angular, AngularJS, Android Studio, Firebase, MySQL **Tools & Frameworks**: Git, Jira, SQL workbench, Linux Shell Scripting, Junit, Maven, D3.js