Zhongming Mu

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QUALIFICATION

Creative, self-driven, fast learning graduate student with 5 years programming experience, from Northwestern University major in Electrical Engineering, looking for a full time software engineer position.

EDUCATION

M.S. Electrical Engineering (GPA 3.8/4.0)
 Northwestern University

 B.E. Electrical Engineering and Automation (GPA 3.8/4.0)
 Beijing Institute of Technology (China)

 Summer school
 University of California in Berkeley

WORK EXPERIENCE

• Chinese Academy of Sciences, Automation Branch
Title: Software Engineer (Fulltime internship)

July 2014 – Aug 2014

- > Developed and tested the User Interface to initialize, set parameter and control a 3D printer by C++. This 3D printer is used for medical purpose, it aims to print human organs by human cells solution to solve the rareness of human organs
- Together with a group to developed the motor control algorithm, this 3D printer uses 3 motors to control the output direction and quantity of human.

PROJECTS

- Personalized Restaurant Search and Recommendation Web Service & App
 June 2016 Aug 2016
 - ➤ Developed an interactive web page(HTML/Javascript) for users to search restaurant, update preference and view recommended restaurants.
 - Developed a web service using (Java servlet, REST API) to fetch restaurant data from Yelp API.
 - ➤ Utilized MySQL/MongoDB to store user preference and restaurant information.
 - > Designed and developed a filter and sorting algorithm and matched similar restaurants.
 - > Tested the web service with unit tests(JUnit).
 - ➤ Github: https://github.com/ZhongmingMu/Dashi.git
- Restaurant Recommendation App on Android

Aug 2016 – Sept 2016

- Integrated Google Map API into the app.
- Implemented a logic layer to communicates with data backend (Yelp API).
- > Optimized backend call latency by using client side caching.
- > Implemented a fragment based dynamic UI based on screen size.
- ➤ Github: https://github.com/ZhongmingMu/RestaurantApp.git
- Data Science: User Churn Prediction

Aug 2016 - Sept 2016

Applied supervised learning models (logistic regression, random forest, etc.) to identify customers who are likely to stop using service in the future.

- > Used different feature selection methods to analyze top factors that influence user intention in telecommunication companies.
- ➤ Implemented this machine learning pipeline using Apache Spark ML-lib and test it on Hadoop ecosystem.
- > Github: https://github.com/ZhongmingMu/DataSience.git
- Data Science: Document Clustering and Topic Modeling

Aug 2016 - Sept 2016

- Applied Natural Language Processing methods (TF-IDF, N-grams, etc.) to cluster unlabeled documents into different groups and visualize results.
- Identified latent structures from documents using different clustering models (K-means, Latent Dirichlet Allocation).
- Github: https://github.com/ZhongmingMu/DataSience.git
- Distributed System: Kademlia Distributed Hash Table

March 2015 - June 2016

- Developed a Kademlia DHT by GO, in which each node can contact to each other.
- > Developed a Distributed File System based on the DHT, in which we can store and search files
- > Developed a vanish function to the DFS to set authority to specific files.
- ➤ Github: https://github.com/ZhongmingMu/EECS-345.git

PROGRAMMING SKILLS/TOOLS

- Java, Python, C/C++, SQL, Pthreads, HTML5, CSS, JavaScript, Go.
- Eclipse, Android Studio, Xcode, Microsoft Visual Studio 2010, Matlab, LabView

CORE COURSES

Design and Analysis of Algorithms, Human Computer Interaction, Distributed System, Parallel Computing, Data Structure, Computer Network, Computer System, Programming Language, Machine Learning, Programming Massively Parallel Processors with CUDA,