Caixu Xu

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💡 Personal Information

Gender: Male

Place of Birth: Yancheng,Jiangsu,China

Birth Date: March 12th,1993

Research Area: Research and Application of Big Data

🎓 Education

Soochow University, Suzhou, Jiangsu   2015 - 2018

Master candidate in Computer Science, expected June 2018
Top 15%

Southeast University Chengxian College, Nanjing, Jiangsu   2011 - 2015

B.E in Computer Science & Technology
Top 3%

👥 Experience

Relationship Strength Prediction on Location-Based Social Network   Jan.2016 - Feb.2017

Attributes: Machine Learning Project

Role: Independent Accomplisher

Main Tools: Python3, Linux, C++, MySql, Scikit-Learn, XGBoost

Used Stanford University open source SNAP data(nearly 100 million check-in data, millions of users) to build a classification model to predict strength of social relations between users. For any users pairs, the user relationship strength is outputted from high to low according to the model.

- Built platform(Install Linux System, modeling tools and DBMS)
- Data Preprocess and Management
- Coding(Extract features from multi dimensions, construct classifier model, optimize model parameters)

Track Similarity Computing System   Mar.2016-Aug.2016

Attributes: Competition Project(China Software Cup)

Role: Project Leader

Main Tools: Java, Python3, JS, UML, Linux, Scikit-Learn

Used nearly 30 million orbital data to establish similarity calculation platform. The platform can response to users' request and calculate the similarity of random two tracks rapidly. And it can find the track most similar to the current given track, and then draw the track dynamically.

- Data clustering and management;
- BS mode; Web Interface is implemented with JSP, CSS and DIV;
- The server background is implemented in Java, building a clustering-based data structure (respond to a fast read operation), and then defining similarity and designing efficient algorithms;

Mining Game Design   Dec.2014-Apr.2015

Attributes: Graduation Design

Role: Independent Accomplisher

Main Tools: Java, UML, Swing package, MySql

Analyzed the requirement of the mine game, and established UML model(including three difficulty levels). And then designed it according to class diagram. The project records the least time-consuming player, and writes the player details into the database.

- In the object-oriented analysis stage, established use case and activity diagram; and built game graphical display interface with swing package;
- In the object-oriented designing stage, established class diagram, class association and interaction diagram; then designed recursively generation minefield algorithm and finally coded to realize.
- Set up a complete test case for three levels of testing(function, border, negative).

Residents' Information Management System   Jun.2013-Sep.2013

Attributes: Summer Vacation Internship Program

Role: Project Contributor

Main Tools: C#, ASP.Net, Html, CSS, JS

Responsible for rectification and add new function: rectified the users' interface and information selection module(rewrite sql), and added map display cell module.
- ASP.Net framework, used html, CSS, JS for the foreground;
- Used C# language for the background , and MySql for the database;
- Greatly improved the interaction, and made the UI more concise and generous after the revision.

⚙ IT Skills

- Programming Languages: Python, C++, C, Shell, Java;
- Database System: MySql, Oracle;

↙ Social Activities

Assistant of Computer Science & Technology, Southeast University Chengxian College	2013
Vice-minister of DV Studio Technology	2012
Vice-minister of Science & Technology Association	2012

★ Honors and Awards

User Social Relations Prediction Software(Computer Software Copyright)	May.2016
The Third-price Scholarship of Soochow University	2015-2016
Excellent Graduates of Southeast University Chengxian College	Jun.2015
Merit Student of Southeast University Chengxian College	2013-2014
The First-price Scholarship of Southeast University Chengxian College	2013-2014
National Computer C Language Proficiency Certificate	2013
Jiangsu Province Computer VFP Ability Level Certificate	2013
The Second-prize Scholarship of College	2012-2013
The Third-prize Scholarship of College	2012-2013
The Third-prize Scholarship of College	2011-2012

☆ Contest

DataCastle: Traffic Line Access Time Forecast, Rank 26	Jan.2017
The 3RD Award of the 5th "China Software Cup" Software Design Competition	Aug.2016
The Second-prize of the 5th Program Design Competition of Southeast University	May.2014
The First Prize of College Web Design Competition	Dec.2011