Dongtai Du

Apt 951,185 Freeman Street, Brookline, MA02446, US

phone:(857)600-9260 <https://dudongtai2002.github.io><Email:dudongtai2002@gmail.com>

Education

Boston University Aug.2014-May.2016

M.S. in Computer Engineering: Computer Networks, Operating System, Analysis of Algorithms, Advanced Data Structure, Cloud Computing, Machine Learning

University of Science and Technology of China(USTC) Sept.2010-June.2014

B.S. in Physics

Technical Skills

Languages: C, C++, C# , Java, JavaScript, HTML/ CSS, Python.

Environment: Windows32 Desktop, Linux, ASP.NET, Apache Tomcat

Professional Experience

Software Development Engineer Intern Sogou Inc. Beijing, Dec.2015-Jan.2016

• Rebuilt a Dynamic Link Library(DLL) for Sogou Pinyin using C++, which could uniquely identify a PC by using MD5 to generate a 16 byte serial number based on hardware information. Greatly reduced the checking error rate and make it applicable in more situations.

• Using TortoiseSVN to manage codes.

Environment: Windows Desktop development, C++, Visual Studio.

Graduate Teaching Assistant Boston University, Feb.2016-May.2016

• Lab assistant & grader for EC512-Enterprise Client/Server Software. C# ,ASP.NET development. Helped answer all the questions from students and set up test case for homework assignments.

Pro jects

Cloud-Computing - Per-tenant OpenStack Pass-Through Service Mar.2015-May.2015

• Wrote a web application that allows cloud users to seamlessly leverage Openstack services from various providers .

• Establish a proxy server between the client and the Openstack Platform on Linux using Python Flask Library.

Environment: Linux, Python, HTML/CSS, OpenStack API, HTTP programming.

Web Developer of User Management System April.2015

• Using ASP.NET Web Form and C# to develop a full stack website which allows users to register, maintain and modify their own account and check out part of other users information.

• Implemented the website’s service logic including cookie, session state, database connectivity, security requirement, and authentication of clients.

Environment: C# , ASP.NET, HTML/CSS, SQL server.

An extension of Google Map - MapApp Sep.2015-Dec.2015

• Using Java and Google Map Api to build a web application on Amazon EC2 Linux Server with a data-set containing 2 million coordinates. It displays a map of US and support range search and nearest neighbor search.

• Implemented K-D Tree based backend in java, reduce time complexity from O(n) to O(lgn).

• Using JavaScript and JQuery & AJAX to build the application webpage.

Environment: Linux, Apache Tomcat, HTML/CSS, Java, JavaScript, JQuery, AJAX.

Machine Learning - AlFont March.2016 - May.2016

• Wrote two multi-layer convolution neural networks that are able to learn, identify and generate characters in specific font.

• Collect and generate characters as training data using over 10,000 fonts.Train the network using mini-batch gradient descent.

• As the leader of the team, I made plans and held group meetings.

Environment: Python Numpy & Theano library, Matlab script.

Network Simulation and Analysis Oct.2015

• Built a Network Socket using java to support client side and multi-threaded server side talked to each other.

• Using Discrete Event Simulator to simulate and analysis the performance of different transmission and routing algorithm including TCP/IP Go-Back-N(GBN), Select Repeat(SR), and Distance Vector(DV) Routing.

Environment: Netbeans, Java, Socket programming.