Chenyang Guan

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Education

Syracuse University, M.S., Computer Science, GPA: 3.78/4.0   *Aug 2013 ~ May 2015*

Beijing University of Technology, B.S., Computer Science, GPA: 3.6/4.0   *Sept 2009 ~ Jun 2013*

Related Core Courses

Modern Programming in Java, Internet Programming, Object Oriented Programming in C++
Analysis of Algorithm, Data structures, Database Design, Introduction to computer web
Agile software engineering, Introduction to Artificial Intelligence, Operating System, Computer Security, Android mobile programming

Technical Skills

Object Oriented Design and Coding Skills: JAVA, C/C++, Python

Web Development: HTML/DOM, Bootstrap, XML, AJAX, CSS, JavaScript, JQuery, REST, Tomcat

Common Tool: Visual Studio, Xcode, Eclipse, IntelliJ Idea, Sublime, SmartGit, Apache JMeter

Database System: SQL Server, MySQL, memSQL, MongoDB, Redis

Professional Experience

Beijing Quantum Finance Service and Network Technology Co.,Ltd   *Jan. 2015 ~ May. 2017*

Java Developer & Team Leader | **MiniSimulator, assets backtest and algorithmic trading simulator SDK**
• Designed and developed backtest platform that supports stock, future, fund, option and bond. Used Spring MVC as basic development frame.
• Utilized binary file to encrypted history quote data.
• Optimized project architecture, developed updating data by incrementally rather than fully rewrite, accelerated backtesting speed by 80%.
• Worked as leader to charge for development process and resource management of whole project.

Java Developer | **TradeSystem and FakeFront Trading Server**
• Optimized TradeSystem basic logic, unified intput and output format.
• Designed and developed fast and precise FakeFront Server to simulate real stock market trading process and logic.
• Calculate all kinds of fee in real trading precisely, used memSQL database to speed up reading and writing data.

Java Developer | **Real Trading Simulation System**
• Designed and developed high-performance and precise stock real trading simulation system which support customers to upload their algorithmic strategies, do online backtesting, show report, and start real simulation next trading day.
• Developed mechanism of subscribing real-time quote, strategies automation and error detection and report.
• Optimized service call, used Docker to encapsulate online backtesting and real trading simulation scripts, easy to update and manage.

Software Engineer Intern | Thomson Reuters Corporation   *Dec. 2012 ~ June. 2013*
• Worked as a software engineer intern with Thomson Reuters Corporation, in software application development team, developing Thunderbird web application to manage projects of whole company. Used HTML/DOM, CSS, JavaScript, and JQuery UI to design the frontend web pages.

Academic Experience

Software engineer | **Internet Programming Course Project**   *Mar, 2015 ~ May, 2015*
Project: Web-based File Repository
• Designed a customer-centric and respond-rapid File Repository System (FRS)
• Built SQL Server database backend to store customers' account information using ASP.NET MVC Entity Framework 6 code first mechanism and designed web interface to register and login the system.
• Used JQuery UI to record, display, analyze and manage file information from XML file.

Software engineer | **Object Oriented Design Course Project**   *Jan, 2014 ~ Mar, 2014*
Project: Scope Analysis & Code Similarity Analysis
• Implemented a fast and function-centric Scope Analysis and Code Similarity Detection Application
• Designed a console File Manager (FM) to search files according to the path and pattern using C++ language and windows Filesystem API.
• Constructed Text Token Analyzer (TTA) to analyze source code file structure according to the keyword and scope, record, display the result as both XML file and tree structure.
• Added Code Similarity Comparison (CSC) component to whole system to display similar files depend on their structures, keyword, scopes and line counts.
• Rank 2rd, top 1% of total more than 90 students, in respond time pressure test by analyzing 1000 files at the same machine environment.

Software engineer | **Object Oriented Design Course Project**   *Mar, 2014 ~ May, 2014*
Project: Message-Passing Communication & Remote Performance Assessment
• Created Client-Server architecture and designed unique HTTP package format to support TCP connection between clients and server using C++ socket library.
• Refined architecture to P2P model, implemented both sender and receiver each end.
• Developed User Interface using C# WPF, connected UI with Communication component and Analyze component via managed extension C++ in .NET.

Team Leader | **Software Development project**   *Sept, 2012 ~ Dec, 2012*
Project: ATM Bank System and Online Bank
• Designed ATM Bank System to support with basic financing features with JAVA language.

• Built SQL Server database backend to record customers' account information. •

Tested Online bank all features and ATM local bank system by Junit tool.