Michael J. Trumbell

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EDUCATION

CENTRAL MICHIGAN UNIVERSITY, Mount Pleasant, Michigan
B.S. in Business Administration, December 2006
Major: *Management Information Systems*

WORK EXPERIENCE

OPTIONSCITY SOFTWARE, Chicago, Illinois
Software Engineer - CityTrader Web & Mobile Application/REST API (January 2015-Present)
· Designed and implemented dozens of features to replace functionality from an existing .NET application using EmberJS
· Gather new feature requirements from sales and marketing and organized them into GitHub issues for future implementation
· Organize quarterly goals and ensure team of 2 completed items from the list
· Helped our main white labeled partner with roll out from the .NET to the EmberJS application
· Profile application's memory to diagnose inefficiencies and long term memory issues
· Helped design API resources when required from our server team
· Used Electron to build a cross platform packaged version of the web application for several different labels
· Organized code into multiple GIT repos to separate open source from internally shared code
· Contribute to open source EmberJS addons when functionality falls short or bugs arise
· Designed and implemented a mobile HTML5 trading application from scratch
· Migrated components to be responsive and integrate with the mobile interface
· Implemented new REST resources in Scala to support web development efforts
· Designed and implemented permission features in Scala and Play to manage and enforce permissions within the REST API and admin site
· Wrote acceptance and unit tests to avoid regressions and test new functionality in Scala

Software Engineer - Support Application (April 2011-Present)
· Studied the support process and interviewed our Level 1 and Level 2 staff to engineer a plan to streamline any and all support operations
· Engineered a custom software suite for automating dozens of support tasks, interacting with 200+ nodes and viewing customer information on an intranet site
· Engineered a reporting service on top of the support suite for generating and submitting (SFTP or Email) trading and general customer reports
· Engineered a MySQL/MongoDB hybrid data structure for storing customer information, trading statistics, analytics and other critical data
· Engineered a system for generating sales invoices based on stored customer information suggesting billable items to our Sales and Accounting teams
· Engineered graphs to display system events to troubleshoot slow trades or pick offs
· Populated tables and collections with information parsed from existing customer configuration files and databases
· Engineered a user friendly, REST API (JSON) to integrate with Nagios and other scripts
· Replaced existing log back up functionality with a more reliable solution which stored results in a mongo collection and alerted the support staff of failures
· Engineered a configurable audit submission system which complied with CME, CBOE, ICE and other exchange vendor rules and also removed the need for critical path logging and replaced with post processing FIX log evaluation software
· Integrated several company services (SalesForce, Google Apps, OpenFire, SurveyGizmo, Quickbooks, JIRA, Bugzilla, SVN) via API libraries
· Engineered a deployment system for quick development machine setup and quick recovery in the event of hardware failure in our production environment
· Continue to support the application and allocate small amounts of time each quarter for bug fixes and features

TRADEFORECASTER, Chicago, Illinois
Proprietary System Trade Support/Development/DBA/Systems Analyst (March 2008-2011)
· Searched logs during bug investigations to better articulate issues to developers
· Worked with traders and developers to improve/conduct day-to-day operations

· Diagnosed bugs submitted by traders and routed the issues to developers based on area of focus and/or priority using TRAC
· Managed database through raw SQL and also through Django views/templates I created to improve database management processes
· Developed HTML/CSS + Django/Javascript/AJAX pages to build support tools and automate processes
· Created scripts to automate repetitive support and development processes
· Developed database management tools to import CME/ICE contracts into the database
· Create parser that used CSV generated from CME order management system (Firmsoft) to manage trader positions and calculate net PnL
· Developed scripts to back up core company data and market data on a per need basis
· Developed software deployment processes and managed 100% of system releases while at TradeForecaster
· Developed a new company website (still in beta) using HTML/CSS/JS/JQuery

Commercial System Support Analyst (March 2008-Present)
· Supported commercial software for 100+ customers
· Developed django pages to quickly access customer information and improve the support experience
· Improved commercial trader sign up process to reduce barriers to entry
· Fielded calls from commercial traders during office hours and at night
· Gave presentations and classes on commercial features to traders and investors
· Recommended hardware/software to traders to improve their system experience

IT/Hardware (March 2008-Present)
· Built production servers optimized for speed and performance
· Performance tuned NICs on all servers
· Built a backup/market data server that is scalable to 40 TBs with RAID6 redundancy
· Managed the company data center (server installations, access, patching, storage, etc.)
· Managed all company purchasing including workstations, phones, servers and components as well as necessary office supplies
· Debugged hardware issues on both Linux and Windows servers/workstations
· Implemented and managed SpeakEasy phone system and began work on replacing system with Asterisk (an open source solution)
· Deployed Hyperic client/server software for monitoring .NET processes, hardware and system errors
· Deployed Smokeping to monitor network traffic
· Developed process and scripts for automatically managing system recycles and daily database maintenance
· Wrote scripts to disable unnecessary Windows services on servers running certain components of the trading platform to optimize performance

IKON DOCUMENT EFFICIENCY, Chicago, Illinois
Solution / Systems Analyst (June 2007-February 2008)
· Worked in a face-to-face environment with customers to gather requirements and diagnose system problems in all phases of the system development life cycle
· Developed solutions to streamline customer business flows and meet document efficiency needs
· Designed website interfaces for customers on specific needs basis using MS Visual Studio and CSS
· Installed document management hardware to improve business flows within customer organizations
· Trained customers to use document management hardware, websites, and applications
· Instructed IKON sales teams on the use of document management tools to improve customer workflows
· Organized meetings to address and correct hardware and software issues
· Worked between IT professionals and management teams to organize projects and translate technical specifications
· Created print servers in both Mac and Windows environments to improve user device management

CHICAGO TRADING COMPANY, Chicago, Illinois
Business Analyst/Quality Assurance Intern (May 2006-August 2006)
· Implemented a company wide survey system to improve the project life cycle
· Instructed company staff on usage and maintenance of the survey system
· Formulated and administered a survey to collect data and enhance business processes
· Delivered oral presentations to managers and developers to convey progress during projects
· Wrote a Perl script to populate the test database with relevant option trading values

TECHNICAL SKILLS

<u>Languages</u>	<u>Databases/ Cloud</u>	<u>Apps/Versioning</u>	<u>Operating Systems</u>
· EmberJS	· MongoDB	· GIT	· Linux (Ubuntu, Red Hat, CentOS, Sci Linux)
· Python	· Postgresql	· SVN	· Windows (NT, 2000/2003, XP/7, Server 2003/08)
· Django	· MySQL	· SSH/SFTP	· Mac OS (Classic, OS X)
· Scala	· sqlite	· AWS env and tools	
· Play	· MS Access	· Confluence	
· HTML/CSS	· MS SQL	· JIRA	
· Javascript	· AWS	· MS Visual Studio	
· Jquery/AJAX	· Firebase	· MS Office Suite	
· Java		· MS Visio	
· Bash		· Cyqwin	
· Visual Basic		· Vi/Vim	
· Perl		· Hyperic	
· PHP		· Nagios	
		· Smokeping	

References available upon request