

Proficiencies

- AWS SDK, Apache, Nginx, IIS, MySQL, MSSQL, MongoDB, Dynamo, OrangeFS, Ubuntu, Windows, Apple OS, Exchange Server, Cisco CLI, Linux, Vmware, KVM, Apple iOS, Android OS, unity3d, corona, phaserjs, phonegap/cordova, kendoUI, .NET, mono, bootstrap, jQuery, knockout
- Javascript/ECMAScript, NodeJS, Lua, C#, mod_lua, Python 2.7, Python 3, Golang, Bash, Powershell, T-SQL, sqlite, PHP, R, objective-c, coffeescript, markdown, html, css
- Ipv4 network design, database schema, web design, mobile development, software development, game design, troubleshooting mindset, superb .md documentation, SOP technical and business writing, AGILE, SAFE, SCRUM, KANBAN, LEAN methodologies practiced, facilitate usability testing, technical mentor, supervised machine learning, web/data scraping, image processing, chat bot, custom proxy services, simple interest financial planning calculations, whiteboarding, sketching

RECENT PROFESSIONAL EXPERIENCE

Custom Tax Apps CIO: Arlington, TX

Nov 2015 - current

- **Design and maintain system API versions and backend infrastructure with 99% uptime.** We are currently on API version 1.2 supporting immediate app changes without redeployment to the apple app store or google play. The heterogenous data made it easy to utilize AWS DynamoDB as the primary datastore for our clients. I choose to implement industry standard HTTPS security by setting up AWS ELB + SSL for secure transfer from client javascript to NodeJs AWS SDK.
- **Create branded native mobile applications.** Since we require a high ROI, I choose to create cross platform hybrid applications utilizing cordova framework. Development cycles are fast since we use universal techniques involving HTML, CSS, Javascript to capture and display data quickly to users and clients. The UX is made as simple as possible as to guide a specific experience and the UI framework Kendo is utilized to make the hybrid app indistinguishable from a true native app.
- **Orchestrating training programs for new developers and graphic designers.** After teaching a few software engineering crash courses to adults, I have found that clear specific visual examples work extremely well for most individuals. I work frequently in Adobe Photoshop to design/alter logos for companies and format images. Setting up code projects from scratch or altering existing projects is another common chore. By recording my screen with Camtasia, I am able to prep potential candidates before meeting them. In this way they have questions ready and I can establish weak points in a student's understanding.
- **Strategizing target marketing with guided sales demos.** Similar to the training program, marketing videos show off the mobile app in the best light possible. I tend to abuse AWS device farm for this purpose since they have screen recorded sessions where I can prove a branded product to a potential client with ease. Combined with youtube's API makes an inexpensive demo.
- **Automated build, deploy, and testing of product.** Since I am so very lazy, I cannot stand to do mundane tasks over and over again. The CustomTax App stack is built on top of AWS infrastructure. This offers us a most robust automation platform due to the maximal flexibility, documentation and support of the AWS SDK. CustomTax Apps can receive a demo request, generate a client profile, rudimentarily generate logos, build and deploy the same app within 2 hours due to the robust automation chain built using simple tools such as git, NodeJs, JScrambler.

Santander Consumer USA Software Engineer III: Dallas, TX

Mar 2015 - current

- **Mentor team members and assigned intern.** Guiding in study material and problem solving. This is a difficult one to elaborate on since it requires such specific detail to each individual. The most common denominator is helping people establish goals, building milestones in between those goals. Celebrating and working hard alongside students is a most effective motivator that tends to keep people from burning out in this fast paced field. We are only required to keep our interns for 12 weeks, however, I still keep in contact with all my previous students to keep them encouraged. I make myself available to answer questions even after we have gone separate ways.
- **Automate standard operating procedures using powershell and innovation.** There always seems to be an endless sea of simple business processes and administrative tasks that some poor soul has to click through menu after menu or edit cell after cell. Powershell has been an excellent instrument for making my boss's life easier due to its ability to interface deeply with Microsoft workstations and servers. Our team has created a rainbow of tools from sending emails, creating support tickets, CLI deployment tools for an internal build server portal to a custom MS SQL file linter.
- **Generate realistic big data fast.** There are strict policies for utilizing customer data within financial companies. In the case where deadlines and laws don't line up, I push forward by generating our very own TBs of data! This way I can deliver a prototype that expresses the effectiveness of machine learning. The image processing is done using node-gd/libgd and the loop is written in nodejs.
- **Cold hearted benchmarks.** So many solutions on the enterprise scale tend to require parallel access. Inefficient cpu

workloads, tiny memory leaks, and chatty network traffic tends to bring some would-be-good solutions to a grinding halt. Stress testing with custom code has been successful in simulating a realistic environments. Stashing results in a round robin database like whisper for later review and beautiful graphite reporting.

- **Winnov vendor marketing tactics by isolating less subjective metrics.** I designed a cross department format for delivering clear research results. You don't have to have a grasp on data science to read these reports, a regular project manager can view and understand every metric not because of complex map reduce ECMAScript 5 code, but simple UX.
- **Create a mobile app for user research.** In order to prove that our idea for a user mobile app is good, it must be human desired, business viable and technologically feasible. The app was visually prototyped in flinto, then I took the images and made a real live mobile application. Once we complete user research, then the app may be approved for a team to build out with full integration and compliance.
- **Promote company hackathon and create challenges.** Last years hackathon was a huge success. We had a team of 5 jokingly create the winning 48 hour application. This year I participated in the recommended challenges and stacks that we as a company should target.
- **Solidify business and technical requirements for AGILE framework user stories and developer tasks.** If you have ever been to a PI planning session then you know the difference from the ideal and actual picture. I pride myself on clear communication and consistent contribution in these large group sessions. Developers and programmers are notoriously silent, shy and absent from these situations in which real influence can be made. I become the 'goto guy' for full stack internal solution and can offer realistic timelines and effective front end solutions to business.
- **Design within proprietary framework in order to present multiple solutions for business.** The internal framework is built in C#. It has its own idea of what an array is, a database connection, and a few other common ideas adjusted ever so slightly as to make you scratch your head. We use the framework specifically when building the standard stack MS Server + MS SQL + IIS + APE.NET.
- **TDD Code to deadline and specs.** I have a habit of invoking test driven development on team projects. A test is included with every feature fluffing commit. All code must be susceptible to dependency injection for the sake of the aforementioned. Additionally test runners like Karma take advantage of PhantomJS to quickly automate some UI/UX test cases.
- **Review code and maintain code standards.** We utilize TFS which integrates tightly with Visual Studio 2015. That is a far cry from TortoiseSVN. Both are use everyday to record code reviews and keep everyone accountable. Stylecop and other corporate standards for styling are applied mostly automatically whilst I mainly just hunt for database calls in for loops or singleton patterns.

Beba, Inc Dev Ops: Remote, FL

Jan 2011 - Jan 2015

- **Ensure 70% code coverage of existing client site code.** There are various schools of thought as to the value of code coverage. One well written test outweighs hundreds code coverage tests. Nevertheless, we made sure that template code was mostly covered with PHPUnit. When new features are desired by a client that are sufficiently novel, we developed the feature twice. One directly in the cloned environment for the quickest results, and the other in the template environment so that we could reuse concepts more easily in the future.
- **Maintain servers with 99.9% uptime.** Ubuntu servers are a dream to manage because they manage themselves. Most of what we used to build out new solutions were cloned LAMP stacks. Monitoring several servers with nagios dashboards and alerts via simple bash shell cron job.
- **Working with Linux, PHP, MySQL, HTML, CSS, Javascript** to create solutions. We needed to generate proposals with a public facing portal often within a week. Generally an environment could be cloned in AWS without much engineering, relevant code can be installed from git repositories and begin new isolated development fast.
- **Develop new websites and backend processes.** E Commerce portals, image galleries, custom date widget, spreadsheet-like applications, guided wizards, CRMs, BPMs, listings, chat rooms, and forms forms forms. Backend processes were typically written in python or PHP with supervisor monitoring health and logs.
- **Order and maintain Digital Ocean and AWS.** Instead of the traditional server room, Beba used exclusively cloud based solutions. The most common OS was Ubuntu, however, Redhat and Microsoft Server 2008 2012 are used on occasion. Another custom monitoring tool less mature than the cyclops variant was used as well.

American Marketing and Mailing Services Operations Engineer: Tampa, FL

Oct 2013 - Jan 2015

- **Manage over 50 servers with an additional 30+ VMs, 40+ websites, thousands of databases, 45+ workstations and 70+ back end asynchronous processes with 95% uptime** by utilizing customdev tools as well as Nagios, graphite, selenium, imacros. It performs regular CLI commands over SSH 2.0 to gather any sort of information you would gather whilst troubleshooting a specific system or service and stores the data in a custom MySQL database. Cyclops was developed on the side as a way to mitigate human error and maintain my own sanity. The project took me about 5 months of database design, research, coding and glorious testing/debugging. Cyclops can cross over windows, apple and Linux platforms easily. The amount of sanity this tool has saved me in the workplace has been invaluable. It actually took over part of my job in its final state.
- **Deploy Microsoft Exchange** and migrate existing postfix for Custom CRM solution deadline. This project involved many powershell and bash scripts to help speed the management of accounts and smart transfer of data.
- **Design over 170 IT SOPs** specific to AMMS improving effectiveness and reducing obscurity. The popular tool of choice for IT was simply grep -R -i -n 'the topic' .. Despite this preference, we also converted some relevant procedures to docx for other

departments. In most cases Markdown format is the preferred storage since it is both 'greppable' and visually pleasing.

- **Research & write AMMS Security Policy** with 12 addenda for PCI & HIPAA compliance risk assessment/audits. I went above and beyond my regular system admin duties by writing an entire policy for a company because they did not have one nor anyone on staff who understood both business concepts and technology concepts. I take great pride in the completion of this task since I went in with no fore knowledge on being audited. A plan was also designed by me to take us through the journey that is compliance. The company succeeded through the audits with my help.

EDUCATION

Westwood College Student: Fort Worth, TX

Jun 2006 - Oct 2008

- Associate of Applied Science Degree in Computer Network Engineering
 - Graduated October 2008

REFERENCES AVAILABLE UPON REQUEST