Software Engineer

JORDEN LOWE

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OBJECTIVE

A senior software engineer with over 10 years of experience looking to take experiences from leadership and feed it back into being a better developer. While being a leader gave me great lessons, my passion is to code. Both these skills together will create a great combination for developing software.

SKILLS & EXPERTISE

Skills:

- C#
- F#
- REST APIs
- NodeJS
- Docker
- Vagrant
- Ruby
- MySQL
- GIT and GITHUB
- Visual Studio
- Linux/Windows/Mac
- AWS / Azure

WORK EXPERIENCE

Software Project Lead - Panasonic Automotive   04/16 - Present

Aupeo - Responsible for development and release of a cloud music service running in AWS. This included using my experience with documenting process, APIs and creating developer VMs to make a developers life quicker and easier to maintain the software. The service was built in Ruby, MySQL, PostgresDB and CassandraDB. Duties Include:

- Creating Release Plans and Guiding a team of 5 developers on 3 Releases.
- Working with remote developers to complete tasks from Ukraine.
- Act as Product Owner to investigate and Create Requirement Documentation.
- Projects like Audio Level Management, hybrid recommender and integrating the project with TheFilter to manage personalized music playlists
- Developed API Documentation using swagger to describe the Cloud Music Service.
- Developed Docker Images for database and service environment.
- Developed Vagrant VM to make development setup experience faster
- Developed Confluence documentation of all our internal processes, like environment locations, procedures, setup guides, release notes, swagger documentation and more.
- Helped trouble shoot logs to allow developers to fix bugs quickly.
- Established a GitFlow like branching scheme.
- Worked together with team of developers and dev ops to deploy applications smoothly.(under 30 minutes)
- Used Jira to track bugs and collaborate with the team on what is left in the release.

Senior Software Engineer – Quicken Loans   01/12 to 04/16

API Gateway Team – An API gateway is enterprise software to aggregate and secure all the API's within Quicken Loans. The solution helps take care of cross-cutting concerns, like security, metrics and documentation. An integral part in allowing our business to integrate our cloud software with our on premise software. The system is java-based and used a RESTful modeling language called RAML. It runs on CentOS servers deployed in AWS and on premise.

- Raised developer awareness of building RESTful services by:
- Modeling them in a language called RAML
- Workshops and mentoring sessions
- Developing presentation materials
- Using a wiki solution (confluence) to document all aspects of our API's.
- Improved developer efficiency when generating REST clients by:
- Building clients based off RAML specification.
- Creating tools around managing client Id and Secrets for their API's to allow searching and migrate from environments easier.
- Created a tool to automatically generate their API RAML using RAMLsharp (project below)

- o Automated continuous integration by building deployment script to integrate into the build system (electric cloud) for deployingAPI proxies to the API Gateway.
- o Ensured the most uptime by monitoring the servers of the API gateway with
- o nmon
- o logs
- o AppDynamics
- o AWS alerts
- o Identified performance bottle necks from TLS 1.2, VPN tunneling, clustering, JVM using JMeter to make sure the architecture was the most performant possible.
- o Brought new ideas to QA and load testing teams like service virtualization (mountebank) so that they could mock 3rd party services while testing End to End.

Document Repository Team - The mortgage process relies heavily on documents. To store and retrieve those documents, there is a system called OnBase. Not only does OnBase store and retrieve documents, but it also has a rules engine to allow business rules to route documents in the organization. OnBase uses a combination of file system, with SQL Server database to store documents. It has a .net API wrapper and now, a RESTful API.

- o This empowered developers in the company to access documents without our intervention by creating a RESTful API using Hypermedia (HAL media type) to access documents.
    - o Since the .net API rapper takes time to execute, we used a message queue to drop updates for another windows service to process.
    - o Utilized cache (Redis) to make sure queries from the RESTful service responded quickly.
- o Using free time, redesigned and built a document exporting system to onboard new investors from one week to a couple of hours.
    - o Document export system processed messages from a queue using Task Parallel Library and a semaphore to control the number of threads that were created.
    - o The document export system used a workflow-like architecture and plug-in model, using Razor Engine, to dynamically change investors on the fly, reducing wait time on new investors.
- o Mentored developers through talks, one-on-one sessions and panels to drive home service oriented architecture, unit testing, API design, continuous integration, SOLID and other topics to give developers a sense that good design is in their reach.

Software Developer – New World Systems   11/10 – 01/12

Aegis Team – Worked on a suite of client applications designed to improve local municipalities ranging from E911 dispatch systems to record keeping system for police, fire and jail. This project was mainly in VB 6.0 server with some .net clients.

- o Improved product stability by fixing bugs.
- o Solved legacy issues by becoming a knowledge base for Windows Mobile Barcode scanners, Zebra Printers, Cannon and Sony Cameras, which improved the customer experience.

Software Developer – Gongos Research   05/10 – 11/10
- o Implemented a time entry application to optimize user interaction and the tracking of project overhead.

Software Developer – Tweddle-Litho Group   07/08 – 05/10
- o Developed on a DVD based application for Chrysler's first digital vehicle owner manuals.
- o Improved an artist workflow collaboration website for international users.

EDUCATION

Master's Degree in Computer Science – University of Michigan, 2009
Bachelor's Degree in Computer Science – University of Michigan, 2006

Training / Conferences

2015

- o   Mulesoft API platform Training
- o   O'Reilly Software Architecture Conference

2014

- o   O'Reilly Fluent Conference
- o   Kalamazoo X
- o   API Craft

2013

- o   O'Reilly Fluent Conference

Projects / Interest

- o   Built blog engine to become familiar with SEO, website hosting, Azure and NodeJS
    - o   https://github.com/supermitsuba/node.blog
    - o   Now hosted on github
- o   Designed IOT (internet of things) bulletin board using Ardunio, raspberry PI and LED tiles:
    - o   http://www.jordenlowe.com/title/LED_Bulletin_Board
- o   Maintainer of open source project to automatically create RAML specification for an ASP.net web api.
    - o   https://github.com/QuickenLoans/RAMLsharp