

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

- |              |                     |                 |
|--------------|---------------------|-----------------|
| ○ C#         | ○ Docker            | ○ SQL Server    |
| ○ F#         | ○ Vagrant           | ○ MySQL         |
| ○ JavaScript | ○ Linux/Windows/Mac | ○ Git           |
| ○ Ruby       | ○ AWS / Azure       | ○ Visual Studio |
|              | ○ REST APIs         | ○ NodeJS        |

## WORK EXPERIENCE

### Software Project Lead - Panasonic Automotive

04/16 - Present

**Aupeco** - 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:

- Working with remote engineers to complete tasks from Ukraine.
- Act as Product Owner to investigate and Create Requirement Documentation.
- Worked on projects like Audio Level Management, hybrid recommender and integrating the project with TheFilter to manage personalized music playlists
- Creating Release Plans and Guiding a team of 5 developers on 3 Releases.
- 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, including environment locations, procedures, setup guides, release notes, swagger documentation and more.
- Helped troubleshoot logs to allow engineers to fix bugs quickly.
- Established a GitFlow like branching scheme.
- Worked together with team of engineers and dev ops to smoothly deploy applications in under 30 minutes.
- Used Jira to track bugs and collaborate with the team on what is left in the release.

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### 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 manage 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 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 RAMLsharp, a tool to automatically generate their API RAML
- Automated continuous integration by building deployment script to integrate into the build system (electric cloud) for deploying API proxies to the API Gateway.
- Ensured the most uptime by monitoring the servers of the API gateway with
  - nmon
  - logs
  - AppDynamics
  - AWS alarms
- Identified performance bottle necks in TLS 1.2, VPN tunneling, clustering and JVM using JMeter to ensure the architecture was optimally performant.
- 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 documents and we used OnBase to store ours. 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 and SQL Server database to store documents. It has a .net API wrapper and now, a RESTful API.

- Empowered developers in the company to access documents without our intervention by creating a RESTful API using Hypermedia (HAL media type) to access documents.
  - Since the .net API wrapper takes time to execute, we used a message queue to drop updates for another windows service to process.
  - Utilized cache (Redis) to make sure queries from the RESTful service responded quickly.
- In my spare time I redesigned and built a document exporting system that dropped investor onboarding from one week to a couple of hours.
  - 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.
- I mentored engineers through talks, one-on-ones and panels to drive home Service Oriented Architecture, Microservice design, API design, unit testing, continuous integration and design patterns. My goal was to give developers a good sense that design is within their reach.

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#### **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.

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

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#### **Software Developer – Gongos Research**

*05/10 – 11/10*

- Implemented a time entry application to optimize user interaction and the tracking of project overhead.

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#### **Software Developer – Tweddle-Litho Group**

*07/08 – 05/10*

- Developed on a DVD based application for Chrysler's first digital vehicle owner manuals.
- 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

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

2014

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

2013

- O'Reilly Fluent Conference

## PROJECTS / INTERESTS

- Built blog engine to become familiar with SEO, website hosting, Azure and NodeJS.
  - <https://github.com/supermitsuba/node.blog>
  - Now hosted on github
- Designed IOT (internet of things) bulletin board using Ardunio, raspberry PI and LED tiles.
  - [http://www.jordenlowe.com/title/LED\\_Bulletin\\_Board](http://www.jordenlowe.com/title/LED_Bulletin_Board)
- Maintainer of open source project to automatically generate a RAML specifications for ASP.net web api's.
  - <https://github.com/QuickenLoans/RAMLsharp>