

# KARL ARVIN ALMARIO

Mandaluyong, Philippines

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More than seven years experience with web development using LAMP/LEMP stack. Provided and Design REST Services for other system to use. I specialize with data generation using millions of raw data, Micro Services, creating applications with heavy backend processes, process management, SQL optimization, implements and provides enterprise search that specializes in faceted search and auto-categorization.

## Technical Highlights

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### Software Skills:

PHP, JavaScript, Bash, C++, JSP, SQL, CSS, (X)HTML, Python

### Databases:

MS SQL 2000, Oracle 9i, MySQL, MongoDB

### Web Technologies:

Endeca Search Engine, AJAX, Zend Framework, CodeIgniter, jQuery, Flash, Subversion, Git, REST, Slim Framework

### Networking:

Intermediate Skill in networking, configured Cisco Routers, LAN/WAN Management

### Others:

Cloud Computing, AWS  
Web Design  
Unit Testing  
Linux: Any RHEL or DEBIAN  
Great Debugging Skills  
Proficient with Adobe Photoshop and Illustrator  
Detail-oriented and fast learner  
Team player  
Experience in team management

### Methodologies:

Scrum, SDLC, Kanban

## Work Experience

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### Solutions/Software Architect

US Autoparts Inc May 2012 – Present

9F, Robinson Cybergate Plaza, Edsa Boni Avenue, Mandaluyong City

#### Summary:

- Assess performance bottlenecks and apply tuning principles.
- Makes high level design choices
- Produce Technical Specification based on Functional Requirement
- Execute Feasibility studies and creation of remediation plans.
- Perform Research and Development
- lead in driving and testing implementation thru development of proof-of-concept for new and unproven solutions
- Collaborate with Project team to provide design, development estimates and resource allocation

## Major Achievements:

- Overhaul a company wide process that updates production data in near real time fashion.
- Spearheaded the use of Zend Framework 2
- Automated all manual process, added system anomaly detection and the business intelligence capabilities
- Spearheaded creation of Micro Service APIs.
- Designed the Structure of a Vehicle Based Catalog Search Engine.

## Development Lead

US Autoparts Inc June 2011 – May 2012

9F, Robinson Cybergate Plaza, Edsa Boni Avenue, Mandaluyong City

### Summary:

- Lead team of developers in product development.
- Assist Solutions Architect in Systems Analysis and Design.
- Assume Solutions Architect role on small projects that do not require an actual Solutions Architect.
- Suggests Endeca Search Query optimization to website development team.
- MySQL query optimization.

## Major Projects / Tasks:

### Search Engine Management (Endeca Search Engine)

- Implements and provides enterprise search that specializes in faceted search and auto-categorization.
- Handles five large indices.

### Process Management

- Directs how data is provided to 200+ websites
- Handles the business critical process that transfer and transform data from our inventory system to our websites' search engine.
- Modifies the process in accordance to new business rules.

### Partial Updates

- Implemented Endeca Partial Updates
- Slashed total processing time by 80%

### Optimization Initiatives

- Assess how the websites fetch Search Engine Queries and suggest improvements
- Performed a lot of complicated Queries for Investigation. Refactor time consuming SQL queries.

## Server Side Developer

US Autoparts Inc July 2009 – 2011

5F RCC Bldg. Shaw Blvd. Brgy. Kapitolyo, Pasig City

## Major Projects / Tasks:

### QA Automation Initiatives

- Spear headed the creation of tools and unit tests to automate QA Test Cases that lead to the creation of QA Automation Team.
- Data Generation on Amazon's EC2 Instances
- Responsible for the generation of lookup databases that is consumed by website components that does not need search engine mechanism.
- Use of Cloud to compute millions of data.
- Flat File Generation for Endeca.

## Software Developer

IntelliTech Business Solutions May 2008 – July 2009

2307 Prestige Tower Emerald Ave. Ortigas Center, Pasig City

### Currency Information Management System

- Reflects the currency center's accounts and manages their daily transactions.
- The system improves transaction speed by 60%

### Cold warehouse Management System

- Inventory management for cold warehouses.

## Freelance Projects

Major Projects:

### Report Generator - 2015

- Dynamic Report Generator for a major telecom company
- Parse and aggregate report from millions of sales data from different systems

### Talent Pool - 2016

- Skills and job employee matching system for a multi national hardware company
- LinkedIn like application

## Certifications

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Cisco Certified Network Associate (CSC011404993) – May 2008

## Education

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**MFI Technological Institute 2006 – 2008**

Information Technology

Formerly Meralco oundation Institute

MFI Building Ortigas Ave. Pasig City