Miguel A Ramiro
Software Development Engineer
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Full-stack developer, analyst and tech lead with a knack for optimization and automation and an academic background in metaheuristic algorithms. Worked analyzing, designing, developing and managing IT systems. Proficient in a wide range of languages including PHP, JavaScript, Java, Python, Bash, C/C++ and both SQL and NoSQL database systems. Experienced in infrastructure management and orchestration for both server and cloud systems, primarily Linux-based.

Technical skills

Languages: PHP, JavaScript, Java, Python, Bash, C, C++, C#

Databases: MySQL/MariaDB, DynamoDB, Redis

OSs: Linux (Debian and Red Hat families), Unix (POSIX), Windows, Mac OS X

Frameworks: Laravel, Symfony, Node.js, Spring (MVC, Boot, Data, Batch), React, Bootstrap, Material UI, jQuery, Kendo, WxWidgets

Tools: AWS cloud stack (CloudFormation, ECS, Lambda, API Gateway, Cognito, Transfer, S3), Docker, Drone CI, Jenkins, NPM, Composer, Maven, Gulp, Webpack, Babel, SystemJs, JSPM, Vagrant

Other: Git, SQL, R, HTML, CSS, Less/Sass, Twig, LaTeX, Apache, PHPUnit, Junit, Jest, Cypress, CI/CD, Cloud Computing, TDD, Scrum

Work experience

Technical Lead at *Softtek/Sterling Talent Solutions*   Bellevue WA, US   May 2018 – To date
Led a development team in charge of a green-field project involving the creation of highly scalable Spring-based REST API, a React-based Micro UI and other supporting components. Served as the project's analyst and architect, designing a solution based on a server-less Micro-Services architecture in AWS. Worked as tech lead by writing specifications (writing and grooming user stories) and documentation, providing guidance, reviewing code and overseeing development and QA. Also served as the project's release manager and DevOps lead by defining and implementing highly efficient CI/CD methods and procedures (pipelines, deployment tools, etc.) that were later adopted by other teams across the organization.

Senior Software Engineer at *Softtek/Sterling Talent Solutions*   Monterrey NL, MX   May 2017 – May 2018
Part of a team responsible for the development and maintenance of the user dashboard for Sterling's SterlingONE platform. Worked in the development of a dynamic report builder and the creation of custom reports for top customers. Took over the technical leadership of the team after a split, overseeing most development and QA work being carried on.

Lead Software Engineer at *Fiscalia.com*   San Pedro NL, MX   Nov 2014 – May 2017
Led development of the company's main website www.fiscalia.com and managed the associated servers. Migrated *Fiscalia*'s 12+ year old code base to modern standards. Implemented CI/CD methodologies, source version control systems, unit testing, code reviews and other industry best practices. Developed a custom-built PHP framework to serve as the bridge between legacy and new code, as well a some minor PHP libraries and ES6 modules. Achieved an unprecedented 2+ years of continuous up-time on the main server. Led the migration from PHP 5.1 to PHP 5.3 and from ES5 to ES6. Implemented build/test/deployment pipelines for the backend (PHP) and frontend (JavaScript) components.

External Jr. Developer at *ANDREA Informatique* Paris, FR (remote) Jan 2011 – Oct 2011
Responsible for the maintenance of the user interface and refactoring of ANDREA's main product: [Phenix](#), a multi-platform network simulation application for Smart Metering Protocols written in C and C++.

Independent Consultant Tampico, TAM, MX 2009 – 2010
Performed analysis, design and development of web and desktop oriented IT systems for various clients.

Education

2014 **Master in Computer Science** (Master's Degree)
Technological Institute of Ciudad Madero (ITCM). Ciudad Madero, TAM, MX. 2012 – 2014.
Master's thesis: *A Cellular Processing Approach for Task Scheduling in Heterogeneous Computing Systems.*

2010 **Systems and Information Technologies Engineering** (Bachelor's Degree)
Tamaulipas Institute of Higher Education (IEST). Altamira, TAM, MX. 2006 – 2010.

Scholarships and certificates

2011 **Total Quality Management** (diploma) - *IEST*

2011 **Graphical Applications and Video Games Development** (diploma) - *IEST*

2010 **Cisco Certified Network Associate** - *Cisco Networking Academy*

Publications

- Task Scheduling in Heterogeneous Computing Systems Using a MicroGA. Proceedings of the *8th International Conference on P2P, Parallel, Grid, Cloud and Internet Computing, 2013*. Compeigne, France. Pecero, J.E., Bouvry, P. ; Huacuja, H.J.F. ; Villanueva, J.D.T. ; Zuniga, M.A.R. ; Santillan, C.G.G.

Languages

Fluent: English, Spanish (native). Basic: French