Marcel Quirijnen | Sr. Software Engineer (Full Stack)
Sikeston, MO 63801 USA

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PROFESSIONAL SUMMARY

- Results-driven Sr. Software Engineer with almost 20 years of IT experience, specializing in clean, efficient code and accessibility standards.

- My collaborative nature allows me to work effectively with cross-functional teams, and I take pride in mentoring junior developers by sharing best practices and encouraging a culture of code excellence.

- Staying abreast of the latest industry trends as continuous improvement is my mantra, and I am always seeking new challenges that will allow me to leverage my skills to make a tangible impact on the tech world, driving digital transformation of the business needs.

- I am visible and available to team members, have a can-do attitude and the ability to be hands on, mentor and work collaboratively and autonomously.

- Assisting with technical design, task estimation, implementation, automated testing, debugging, monitoring and deployment.

- Experienced in designing, implementing, testing, debugging and integrating microservices and RESTful APIs.

- Well versed in technical and financial storytelling using ChatGPT, Github Copilot, FinanceGPT and Otter.ai

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CORE COMPETENCIES

- **Programming Languages:** PHP, Go, Perl, Python, Typescript, JavaScript (JQuery, NodeJS, React, VueJS, AngularJS), C/C++, Expect
- **Database Management:** MySQL, PostgreSQL, Oracle, Stored Procedures, MySQL master/slave replication and sharding, DB2
- **Frameworks & Tools:** Laravel, Jenkins, Docker, Git, Github Actions, Copilot, Slim, Flask, RabbitMQ, Datadog, Ansible, ElasticSearch
- **Technical Project Management:** Agile methodologies, Scrum, cross-functional team leadership
- **Cloud Technologies:** AWS
- **Software Design & Architecture:** RESTful APIs, microservices, system performance analysis
- **System/Admin Tools:** Vagrant, MRTG, Snort IDS, Postfix, Dovecot, Bind9, tinyDNS, SpamAssassin, Nagios, Cacti, Shell scripting

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PROFESSIONAL EXPERIENCE

Sr. Software Engineer – Data Minds Team

Vasion (formerly PrinterLogic), Saint George, UT
01/2022 – 05/2024

- Led the development of cloud-based printing solutions, collaborating with cross-functional teams to deliver projects on time and within scope.
- Improved legacy PHP code following PSR standards and best practices, enhancing maintainability and performance.
- Contributed with the design and implementation of major features, including PHP REST APIs, Vue and React components as well as Golang microservices, resulting in a 25% increase in system efficiency.
- Run Daily Standup meetings and demo sprint commitments
- Analyze system functional and performance requirements to support design architectures.
- Stay abreast of new technologies (Go, Vue3, ChatGPT, CoPilot).
- Environment:
  PHP, React, Golang, MySQL, Stored Procedures, AWS, RabbitMQ, Node, Docker, Laravel, Jira, Confluence, Github & Bitbucket, Github Actions, Copilot, DataDog

Sr. Web Developer – Research Web Group Division – FRED Team

Federal Reserve Bank of St. Louis, MO
01/2021 – 09/2021

- Maintained and secured the FRED-family of economics data websites, improving site performance and user accessibility.
- Successfully migrated legacy systems to the cloud, enhancing data retrieval speeds.
- Environment:
  PHP, React, Node, JQuery, Git, Gitlab CI, PostgreSQL, Docker, ElasticSearch, AWS

Web Developer V - ESPA Team Lead

Wells Fargo Network Security, Charleston, SC
04/2019 – 11/2020

- Developed web-based endpoint security solutions, focusing on network authentication protocol 802.1x, resulting in improved security compliance.
- Environment:
  Perl, C, ROSE ORM, AngularJS, JSON, JQuery, SubVersion, MySQL, ActiveMQ, IBM MQSeries, Jenkins, uDeploy, Jira, Crucible, Confluence, rpmbuild and Nagios

Full Stack Web Developer

PAM Transport, Tontitown, AR
03/2018 – 03/2019

- Develop web-based tools to support the transportation industry with their training requirements, scheduling needs and carrier and load brokerage services.
- Created a daily web-based load board tool, increasing carrier engagement and streamlining daily load operations.
- Environment:
  PHP, Laravel5, Vue2.js, Yarn, Webpack, JSON, JQuery, NginX, GitLab, DB2, MySQL, VirtualBox, Vagrant, Jenkins

Sr. Back-end Developer – Tools & Automation – Rapid Innovation Team
Optanix, Syracuse, NY
03/2016 – 02/2018

- Improvement and extension of HealthCheck Indicators for network appliances for a variety of Fortune 500 customers.
- As a team member, I contributed to the further development of the Optanix SAAS platform using the LAMP stack of tools and virtualization technologies.
- Automated builds of Ubuntu installation packages using Jenkins
- Perl mentoring role and provided a webex talk on Perl best practices.
- Ported Perl network library modules to Ruby Gems.
- As a SSE I assisted the PM with picking next sprint objectives for Perl back-end tasks
- Acted as the PM backup for daily standup meetings (Agile PM).
- Contributed to the initial development of an HTTP Poller endpoint service using Tornado asynchronous python framework, together with RabbitMQ as its messaging system.
- Environment:
  Python 3, Perl, PHP, Ruby on Rails, C, shell scripts, Yii PHP Framework, Jquery, Apache, Git, ZeroMQ, VirtualBox, Docker, Jenkins, SonarQube, JIRA

PHP Back-end Web Developer
Arkansas Blue Cross & Blue Shield
05/2011 - 02/2016

- Contributed to the development of a web-based HIPAA-compliant claims processing services with XML and WSDL documents using SOAP protocol to communicate with mainframe and MS-based systems. The application enhances the processing of healthcare claims in AR, LA, MS, NM, RI, OK and MO and ties in to various enterprise technologies (Microsoft .net, services, IBM Mainframe, proprietary claims applications).
- Required understanding of HIPAA regulations and how it impacts applications and data
- Environment:
  PHP, MySQL, Apache, SSL, JQuery, WSDL, SOAP, XML, JSON, Subversion(SVN), Zend Guard and bash shell scripting

Sr. Open Technology Engineer
The Daily Record, Inc., Little Rock, AR
05/2008 - 05/2011

- Setup and maintain Linux based servers used as backbone systems for newspaper data
- Setup in-house hosting of mail server
- Virtualized servers with VirtualBox and/or VMware ESXi using OpenFiler
- Upgrade current web applications to be Web 2.0 look & feel using CodeIgniter, Ajax and XML output formats for Adobe publishing software.
- Monitoring DMZ servers using MRTG, Snort IDS and AWstats reporting
- Saved $50K+/yr on hardware update expenses thanks to virtualization
- Implemented an automated contingency plan (after bad weather and theft experiences)
- Environment:
  PHP, C, CodeIgnitor MVC Framework, MySQL, Apache, Ajax, XML, Perl, shell scripting, C, Postfix, Dovecot, Horde groupware, SpamAssassin, MRTG, Nagios & Cacti, VirtualBox, ESXi, Bind9, OpenFiler, RAID disks

Call Processing/VoIP Engineer
Vonage*, Holmdel, NJ*
02/2004 (pre-IPO) – 04/2008

- Develop a set of tools using Perl, PHP, Expect, Shell to support production monitoring and call processing. Example: SIP debugger
- Significantly increase Vonage SIP IQ by an improvement of production monitoring, detection and reporting of anomalies using my tools. Thanks to this the production environment was turned into a well managed and reliable SIP network as we know it today.
- Environment:
    SSH, SSL, Perl, Expect, MySQL, SIP, Shell scripting, PHP, C, Nagios & Cacti

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EDUCATION

MS in Computer Science
LUC University, Belgium

BS in Information Technology & Programming
HORITO College, Belgium

BS in Industrial/Power Electronics
HORITO College, Belgium

COURSEWORK

- Business Innovation (University of Maryland)
- Interactive Programming in Python (Game programming, Rice University)
- Startup Engineering (Stanford University)
- Project Management (Udemy)
- AWS Certified Developer (Linux Academy)

- Code samples: https://github.com/MarcelQuirijnen