**Marcel Quirijnen**

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### PROFESSIONAL SUMMARY

* Senior Software Engineer with 20 years of IT experience, specializing in clean code, accessibility standards, and digital transformation.
* Strong collaborator and mentor, fostering a culture of code excellence while working effectively with cross-functional teams.
* Committed to continuous learning and embracing new challenges to stay at the forefront of industry trends.
* Expertise in technical design, task estimation, microservices, RESTful APIs, automated testing, and debugging, as well as skills with technical and financial storytelling tools like ChatGPT, GitHub Copilot and FinChat.

### SKILLS

* **Programming Languages:** PHP, Go/Golang, Perl, Python, Shell (automation) scripting, Typescript, JavaScript, Node, React, Vue, 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, Team Lead
* **Cloud Technologies:** AWS
* **Software Design & Architecture:** RESTful APIs, microservices, system performance analysis

### WORK EXPERIENCE [**Vasion**](https://vasion.com/) **(former PrinterLogic) Saint George, UT** **Sr. Software Engineer – Data Minds Team** 01/2022 – 05/2024

* Work closely with product owners, engineers, designers, and QA to deliver industry-leading cloud-based printing solutions in a fast paced environment, focusing on cost management and print stats.
* Successfully migrated legacy systems to the cloud, enhancing data retrieval speeds
* Work closely with product owners, engineers, designers, and QA to deliver industry-leading cloud-based printing solutions in a fast paced environment, focusing on cost management and print stats.
* Contribute to the creation of functional and technical specifications.
* Assisting with technical design, task estimation, implementation, automated testing, debugging and deployment.
* Improve 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 +20% increase in system efficiency.
* Analyze system functional and performance requirements to support design architectures.
* Stay up-to-date with 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, bash, zsh

**Federal Reserve Bank of St. Louis, MO St. Louis, MO**  
**Sr. Web Developer – Research Web Group Division – FRED Team** 01/2021 – 09/2021

* Maintained and secured the [FRED-family](https://fred.stlouisfed.org/) 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, bash, PostgreSQL, Docker, ElasticSearch, AWS

**Wells Fargo Network Security Charleston, SC**  
**Web Developer V - ESPA Team Lead** 04/2018 – 11/2020

* Developed Perl/Angular 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, bash, IBM  
   MQSeries, Putty, Jenkins, uDeploy, Jira, Crucible, Confluence, rpmbuild and Nagios

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

* Contributed to the development and extension of HealthCheck Indicators for network appliances, serving Fortune 500 clients.
* Played a key role in enhancing the Optanix SAAS platform using LAMP stack and virtualization technologies.
* Automated Ubuntu package builds with Jenkins and mentored colleagues on Perl best practices, including leading a WebEx talk.
* Assisted with sprint planning, acted as Agile PM backup, and contributed to the development of an HTTP Poller service using Tornado and RabbitMQ.
* Environment:

Python 3, Perl, PHP, Ruby on Rails, C, bash, bourne script automation, Yii PHP Framework

**Arkansas Blue Cross & Blue Shield Little Rock, AR**PHP Back-end Web Developer 05/2010 - 02/2016

* Required understanding of HIPAA regulations and how it impacts applications and data:
* Contributed to developing a HIPAA-compliant web-based claims processing service using SOAP, XML, and WSDL for communication with mainframe and MS-based systems.
* Enhanced healthcare claims processing in AR, LA, MS, NM, RI, OK, and MO, integrating with Microsoft .NET, IBM Mainframe, and proprietary claims applications.
* Environment:  
   PHP, MySQL, Apache, SSL, JQuery, WSDL, SOAP, XML, JSON, Subversion(SVN), bash

**The Daily Record, Inc. Little Rock, AR**Sr. Open Technology Engineer 07/2006 - 05/2010

* Virtualize servers with VirtualBox/VMware ESXi/using OpenFiler, saving $50K+ annually on hardware.
* Set up and maintain Linux servers for newspaper data, and host in-house mail server.
* Upgrade web applications to Web 2.0 standards using CodeIgniter, Ajax, and XML for Adobe publishing.
* Monitor DMZ servers with MRTG, Snort IDS, and AWstats, and implement an automated contingency plan.
* Environment:  
   PHP, C, CodeIgnitor MVC Framework, MySQL, Apache, Ajax, XML, Perl, shell script   
   automation, C, Postfix, Dovecot, Horde groupware, SpamAssassin, MRTG, Nagios & Cacti,  
   VirtualBox, ESXi, Bind9, OpenFiler, RAID disks

**Vonage Holmdel, NJ**  
**Call Processing/VoIP Engineer (Pre-IPO)** 02/2004 – 04/2006

* Develop a set of tools using Perl, PHP, Expect, Shell to support production monitoring and call processing. Example: SIP debugger
* Set up and maintain Linux servers for newspaper data, and host in-house mail server.
* Increase Vonage SIP IQ by improving production monitoring, anomaly detection, and reporting with my tools, transforming the environment into a reliable SIP network.
* Environment:

SSH, SSL, Perl, Expect, MySQL, SIP, Shell script automation, PHP, C, Nagios & Cacti

### EDUCATION

**MS in Computer Science -** LUC University, Belgium

**BS in Information Technology & Programming -** HORITO College, Belgium

**BS in Industrial/Power Electronics -** HORITO College, Belgium

### RELEVANT COURSEWORK

* Google Digital Marketing & E-commerce
* Business Innovation (University of Maryland)
* Interactive Programming in Python (Game programming, Rice University)
* Startup Engineering (Stanford University)
* Project Management (Udemy)
* [Online resume](https://marcelquirijnen.github.io/)