

Marcel Quirijnen

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PROFESSIONAL SUMMARY

- Senior Software Engineer with 20 years of experience dedicated to delivering clean, accessible, and future-ready digital solutions that improve user experience and drive meaningful impact.
- Actively support and uplift teams by mentoring engineers, suggesting best coding practices, and fostering collaborative environments that enables everyone to be successful.
- Passionate about lifelong learning and embracing new challenges to better serve the team, the projects, and end users through innovation and up-to-date technical knowledge.
- Provide thoughtful technical leadership in architecture, estimation, microservices, RESTful APIs, and test automation—while also leveraging tools like ChatGPT and GitHub Copilot to enhance clarity, efficiency, and communication across technical and non-technical audiences.

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

AI Finance Club

Member

Global

07/2024 – current

- Proud member of the AI Finance Club — the premier global community where forward-thinking CFOs, Fractional CFOs, and finance professionals master cutting-edge AI tools to automate workflows, unlock insights, and lead digital transformation.
- Building tools like an invoice agent, converting from google script to AI Agent, automating financial processes,
- How to get your whole team on AI, Azure and AI, what can it do for your finances
- AI for M&A (my main usage)
- Environment:
Python, Typescript/Javascript, Excel, n8n, Streamlit, ChatGPT, Groq, Claude and Gemini

Outlier.ai**Global**

Freelance

03/2024 – current

- Prompt improvement and detailed explanation as to why the changes are improvements
- Improve, debug and refine code for prompt-based generation using Python, shell scripts or Java

Vasion (former PrinterLogic)**Saint George, UT**

Sr. Software Engineer – Data Minds Team

01/2022 – 05/2024

- Partner closely with product owners, engineers, designers, and QA to deliver user-focused, cloud-based printing solutions that help organizations manage costs and understand usage through actionable print analytics.
- Contributed to the creation of functional and technical specifications that guided successful implementation.
- Assist my team throughout the development lifecycle—from technical design and task estimation to implementation, automated testing, debugging, and deployment—ensuring reliable and maintainable software delivery.
- Refactor and modernize legacy PHP codebases with PSR standards and best practices, enhancing performance, readability, and long-term maintainability for future developers.
- Contributed and collaborate with cross-functional teams by designing and building major features—including PHP REST APIs, Vue and React components, and Golang microservice that improved overall system efficiency by over 20%.
- Assisted the Tech Support team as a T4-tier solution provider by triaging technical issues and providing a ‘bug – not a bug’ decision and hand off the ticket to the corresponding team.
- Continuously explore and apply emerging technologies (Go, Vue3, ChatGPT, GitHub Copilot) to better equip the team and elevate the quality of solutions delivered.
- 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](#) of economics data websites, improving site performance and user accessibility.
- Successfully contributed with the refactoring and migration of a legacy system to the cloud, enhancing data retrieval speeds significantly.
- 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 and automated 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

- Supported the reliability and performance of Fortune 500 client networks by contributing to the development and enhancement of HealthCheck Indicators for critical network appliances.
- Helped improve the functionality and scalability of the Optanix SaaS platform by building and maintaining solutions using the LAMP stack and virtualization technologies to better serve enterprise customers.
- Streamlined internal processes by automating Ubuntu package builds with Jenkins, and uplifted team capabilities by mentoring colleagues on Perl best practices—culminating in a knowledge-sharing WebEx session to extend impact across the organization.
- Actively contributed to Agile team operations by assisting with sprint planning and stepping in as a backup Agile PM, while also delivering technical value through the development of an HTTP Poller service using Tornado and RabbitMQ to support real-time system responsiveness.
- 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

Call Processing/VoIP Engineer (Pre-IPO)

Holmdel, NJ

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](#)

Non-paid interests

- Foreign languages - I'm fluent in English, Dutch, French and currently learning Spanish.
- Beekeeping - taking care of these amazing creatures.
- Martial arts - I've trained in some for +20 years and currently practicing Shaolin Kung Fu, Tai Chi Chuan and Chi Gong.
- US Tax code (former H&R Block seasonal associate)
- Ballroom dancing and loving it, performed twice at the [Hamner Theatre in Branson, MO](#) for charity.
- Cooking phenomenal food
- Foster parent - Taking care of a handful local kids who desperately need a structured and caring family life.