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 my team by mentoring, 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 contributions to architecture, estimation, microservices, RESTful APIs, and test automation—while also using tools like ChatGPT and GitHub Copilot to enhance 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, DB2
- **Frameworks & Tools:** Laravel, Jenkins, Docker, Git, Github Actions, Copilot, Slim, Flask, RabbitMQ, Datadog
- **Technical Project Management:** Agile methodologies, Scrum, cross-functional team leadership (global T4 tech support lead), Team Lead
- **Cloud Technologies:** AWS
- **Software Design & Architecture:** RESTful APIs, microservices, system performance analysis

WORK EXPERIENCE

AI Finance Club   **Global**
Member   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
- Environment:
    Python, Typescript/Javascript, Excel, n8n, Streamlit, ChatGPT, Groq, Claude

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 global Tech Support team as a T4-tier end-of-the-line solution provider by triaging technical issues and providing a 'bug – not a bug' decision and hand off the ticket to the corresponding team.
- Environment:
  PHP, React, Vue, Golang, MySQL, Stored Procedures, AWS, RabbitMQ, Node, Docker, Laravel, Jira, Confluence, Github & Bitbucket, Github Actions, Copilot, DataDog, bash

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, 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 PHP, 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)

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.

Online resume