

Scarlett S. Verheul

Areas of Interest: (SaaS) Backend Software developer, In house backend software development , Legacy system upgrades and system integration

I'm a lifelong programmer and tech enthusiast with 12+ years of professional experience, primarily in backend software development and software as infrastructure roles across Hosting, SaaS, ATS, and Platform Integration projects. I work comfortably with both modern and legacy stacks, with deep experience in Linux environments, PHP (5–8.3) using Laravel and Symfony, and Python (3.13) for performance-critical and system-level tooling. I regularly build and maintain systems involving CI/CD, Docker, RabbitMQ, telemetry processing, and microservices.

I follow a pragmatic, direct approach: use the right tool for the job, keep things observable and performant, and avoid complexity unless it earns its keep. I value strong typing, clean architecture, and workflows that make life easier for both developers and ops.

Experience

Sabbatical - Capelle aan den IJssel

Personal Projects

Feb 2025 - ~end 02-3 2025

Domain: Game Development, Recuperation, Python3, Panda3d

Recuperating for a while after working for a long time.

Meanwhile working on some personal projects mostly PHP and a Python3/panda3D civ-like game.

[Assisted a few friends for a few months with some of their projects]

I3D.net - Capelle aan den IJssel

Software Engineer (Network/Infra automation department)

Sept 2021 - Oct 2024

Domain: Hosting, Network Automation, Networking, PHP7→8, Python, Laravel

At I3D I worked on maintaining and improving/rebuilding various production systems focusing on server infrastructure and automated server provisioning/network automation and processing raw data gathered from telemetry into a workable application.

Digivotion B.V. - Rotterdam

Tech Lead (Hands on)

Feb 2019 - Sep 2021

Domain: SaaS, Devops, PHP5→7, Code Rework, Modernization, Zend 1, Server Management, Laravel, Python3, Microservices, Project Management

At Digivotion I worked on improving and developing parts of the SAAS systems offered to customers. I worked on the backend and filled a day to day technical leadership role. I also worked on improving the developer experience by migrating away from aging infrastructure to newer systems.

Supportdesk B.V. - Rotterdam

Software Engineer/Incidents-CERT

Aug 2016 - Feb 2019

Domain: Development-AAS, Webplatform (E-Commerce), CERT, Magento1, PHP5

My time at supportdesk mostly focused on implementing direct (semi-)custom wishes of customers into their web applications. I also worked on the CERT/Security incidents teams for when a customer had an security incident/hack on a server. I also worked on improving the performance and scaling from customers on their platforms.

Personal Information

Location	Capelle a/d IJssel / Randstad / Netherlands (EU) (CEST +2)
Citizenship	Dutch (EU)
Email	Scarlett.Verheul
Github	Github/ScarlettSamantha
Gitlab	Gitlab/scarlett
LinkedIn	ScarlettVerheul
C.V	Scarlettbytes.nl/cv
Key GPG	GPG/Scarlett
Employment	Remote/Hybrid
Availability	Within a week 40h/week
Visa Required	NO

SKILLS (1 ... 5)

PHP5/7/8(5), Python(🐍 4), Git (Git 4),
Linux-Debian-Cent(🐧 4), Laravel/Eloquent(4),

Symfony(3), CI/CD(3), QT5/6(3), Bash(3), Event Based (3), Game Dev(3), Panda3D (3), Pipelines(3), MySQL (3), Networking (3), Microservice (3), Docker(3), Flask(3), Rabbitmq (3), Nginx (3), Apache (3)

K8's(2), Micropython(2), PostgreSQL(2), Django(2), PL/Python(2), C# (2), GTK (2), Pure/jQuery Javascript (2), NumPy (2), Hardware development(2), Kivy(2), Unity(1)

Other Skills (/Buzzwords):

RESTful APIs - OOP - strong typing

Domain-Driven Design (DDD) - SOLID principles

Peer review - documentation - project management

SPI - unit testing (PHPUnit, PyTest) - Docker

Xdebug/Profiling, Composer - PSR-1 to PSR-18 - DNS

Swagger/OpenAPI - i18n - XML/Markdown/Json

CI/CD pipelines - KVM - Debian microservices

TCP/IP - (para)virtualization - SaaS platforms

Elasticsearch - telemetry processing - LibreNMS -

DHCP SNMP - RS232 - SDI-12 - Cacti - Redfish -

BMC - LDAP - server hardware - Ubuntu Server -

Infrastructure as Code (IaC) - Twig - 3D modeling /

manufacturing - Ubiquiti - Juniper API - Sentry -

Helloprint,Drukzo - Rotterdam

Team Lead IT

July 2015 – Aug 2016

Domain: Startup, Quick Iteration, PHP5, External API's, Custom ecommerce services

Here I worked on Improving the internal and external platform and implementing new systems. I also worked on creating a team to share the workload and facilitate that. I also worked on integrating various external API's

[Skipped 2 experiences (available on [linkedin](#))]

Drecomm B.V - Rotterdam

PHP Developer

Sept 2012 – Aug 2014

Domain: Project Development, PHP5, B2B, Typo3, Drupal, Frameworkless

I worked on improving customers' applications with new features or bug fixes or installations. I also worked with different teams to help out when extra developers were needed.

[Skipped 1 experiences (available on [linkedin](#))]

AREAS OF WORK

Linux/Network -

I've used Linux as my primary OS for years, so I'm very comfortable in a Unix environment and am used to working with servers—remote or local—either via the CLI or programmatically. I'm also a believer in the (F)LOSS movement..

PHP Development -

I've worked on a wide range of projects, from large SaaS platforms and custom PHP applications to internal tools, with much of my work focused on updating, modernizing, and improving existing production codebases.

My main expertise is with Laravel and Eloquent (v4 and up), but I also have significant experience with Symfony and some Zend (v1). I'm comfortable working with both modern and legacy PHP frameworks, and frequently handle refactoring, testing, and profiling to ensure reliability and performance in complex applications.

Python Development -

Python has been my go-to language for projects where higher performance, concurrency, or deeper OS integration was needed—especially back when PHP lacked threading support (until v8).

It's my personal favorite, and most of my private projects are written in Python. I regularly leverage Python's async capabilities and event-based patterns for scalable or real-time systems. I generally prefer to use pure Python with only the necessary libraries and objects, but for more complex applications or APIs, I reach for frameworks like Flask or Django.

Workflow/Style -

I prefer working in environments that are organized and transparent, whether following waterfall, scrum, or agile methodologies. I rely on ticket or task management tools, together with a Git-based workflow hosted on remote repositories for clear collaboration and history.

My ideal setup includes a robust D(/O)TAP process, automated CI/CD pipelines, and strong integration of automated testing—so we catch early, not by users. I use Docker for development, testing, and deployment, for dependability and scalability

I am a believer in code reviews as they are essential for maintaining quality and sharing knowledge. I value clear, constructive feedback and view peer review as a learning opportunity, not just a gatekeeping step.

I follow SOLID principles and favor OOP for most projects, always preferring strict typing for clarity, and early error detection. Consistent code style and observability is important to me. I aim to keep things simple and pragmatic, avoiding complexity.

PREFERRED ROLES (Senior)

- PHP Backend Engineer
- Python Backend Engineer
- SaaS Developer
- Inhouse Developer

HUMAN LANGUAGES

- Dutch  | Mother Language
- English  (C2) | Bilingual

HOBBIES/INTERESTS

Traveling, MicroElectronics, Technology, Music, HPC, Programming, AI, Pets, Foreign Relations, Global Politics, Current Affairs, Space, Airsoft, 3D Printing, Gaming(4x, Strategy), Drone Racing, Drone making

REFERENCES

References from multiple ex-colleagues and team leads are available upon request please contact [me](#).

NOTES

I am open to diverse salaried positions depending on the project and location and compensation.

This C.V. was handmade and as I am dyslexic it might contain spelling mistakes/errors.

SECURITY

This document has been signed(.sig file) with my GPG key. If it is not signed or a bad signature message is given upon verification, then this document has been modified without my permission.

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2F98 5406 3563 1EEC A083 744D 7EC1
5F90 0C0D

Content-HASH [SHA1]

A467 558B EA0A F676 0E29 B640 ADF0 3F45
FDF7 0142

CONTRIBUTIONS:

- [Google Maps](#) Area data
- [LookingGlass](#) (Rank 3rd) Contributor

Thank you for your time, attention and consideration



With kind regards,

 Scarlett Verheul

EXTRA | Career Journey, what drives me & Workstyle

The following page provides a deeper look into my career journey, key projects, and professional motivations. This additional detail is provided for those interested in further context beyond my main CV.

Career Story

I started my career doing intranet work for subgovernments and, from there, moved into more SaaS agency work. This is where I really started to get “into” backend development, which has been my preference ever since and the area where I’ve grown the most.

Since then, I’ve worked in various roles but always hands on, from Team Lead to Tech Lead to Software Engineer. Over time, I learned that managing the people’s side is not my thing—my true love in the profession lies in building great software, with a focus on heavy custom backend applications, interesting code, helping colleagues and self improvement.

What Drives me

I have been passionate about technology for as long as I can remember. My father is a software engineer, so I was introduced to the field at an early age and have enjoyed working with technology ever since.

I enjoy building high-performance, scalable software that is genuinely useful and solves real-world problems in a secure, efficient, and observable way. I take pride in developing systems that are reliable and maintainable.

Beyond software, I have a strong interest in STEM fields in general and enjoy projects that combine both hardware and software to create innovative solutions. I make it a priority to stay up to date with the latest developments and techniques in technology.

Systems (I helped) created

Throughout my career, I’ve had the opportunity to design, build, and modernize a range of backend, SaaS, and infrastructure systems, including:

Scalable automated networks and telemetry

For a large company, I worked on a system that collected telemetry from servers (CPU, power, hardware failures) and funneled this via RabbitMQ to a backend system that processed it through microservices into an internal backend for management.

This system also enabled bare metal servers to be installed from scratch over the network, with automated network configuration.

SaaS platform(s)

I’ve worked on several large SaaS platforms. For example, one platform helped customers in the construction business work more efficiently and ensure both quality and customizations were executed properly for end customers.

Legacy platform migrations/Rework

For several companies, I’ve performed migrations to and from different frameworks and PHP versions, or even across languages.

I’ve also reworked slow applications by profiling and rewriting critical parts to be asynchronous, enabling better scaling across multiple cores and reducing wait times.

Incident and security response tooling

For several customers, I acted as first-line support in the case of a security breach. This required rapid investigation and analysis to ensure servers were secure, trace hacks, and provide proper documentation to the appropriate authorities in the event of data loss.

Continuous integration/deployment pipelines

I have set up systems to help developers and companies deploy more efficiently, with fewer bugs and greater observability—so we know about issues before customers even see them.

This included various custom scripts, applications like PHPSTAN, PHPMD, PHPCS integrated into git pipelines, and developing and integrating tools to improve the deployment process.

Architectural systems

At several companies dealing with outdated, non-scalable monoliths, I’ve worked to split up, upgrade, and rework architectures into modern, container-based systems.

These efforts emphasized domain-driven services that keep functionality simple, making testing, maintenance, and observability much easier.