

Artjom Simon | Freelance Full-Stack Developer

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Full-Stack Software Architect. Specializing in backend, databases and infrastructure

Projects

Limetec Biotechnologies GmbH

Freelance Software Developer

Hennigsdorf

Mar. 2022 – Mar. 2024

Modernization of a legacy codebase by code modularization, cleanup and refactoring using PHPStan, CodeSniffer, and Rector. Implementation of client management functionality, modularizing and integrating within the legacy codebase (TypeScript, React). Upgrade PHP 7.4 codebase to PHP 8.2, ensuring smooth upgrades of incompatible dependencies.

⇒ PHP (Symfony), MySQL, L^AT_EX, Acroforms. TypeScript, React.

Simplicity Networks GmbH

Freelance Software Developer

Oelde / Berlin

Oct. 2020 – Mar. 2022

Integration of a 3rd-party PLM system into legacy systems (FashionXL) via XML/SOAP. Development of an event-driven architecture built on Kafka, aggregating data into an in-house PIM system. Adaptation of AWS CDK (Cloud Development Kit) into the team to facilitate architecting data product pipelines across teams, defined in code. Building data contracts validated by JSON Schema to facilitate JSON-based REST communication between microservices.

⇒ PHP (Zend, Laminas), Python, Go, Postgres, MSSQL, AWS (Kubernetes, Lambda), Docker, Kafka, SOAP.

VGL Verlagsgesellschaft mbH / vergleich.org

Freelance Software Developer

Berlin

Jan. 2020 – Sept. 2020

Support the team with migration to AWS servers (S3, EC2), infrastructure growth by leveraging an in-house Event Sourcing implementation.

Runtime profiling and optimization by reducing SQL query complexity and/or offloading workloads to the DB.

⇒ PHP, MySQL, PHPStan, Psalm, Redis, AWS, Blackfire Profiler.

Sompani UG

CTO

Berlin

Nov. 2017 – Dec. 2019

Greenfield implementation of a marketplace for candidate referrals used by 500+ companies.

Optimized User Experience by involving Server-Side Rendering, keeping the TTFB response rates <150ms, and leveraging HTMX for user-interactive AJAX requests, keeping the added TTI (Time To Interactive) below 20ms.

DevOps: Established a CI/CD pipeline based on industry-standard best practices, allowing for up to 10 zero-downtime deployments to production per hour, staging and QA environments.

Unit Testing and fully automated browser-based functional testing triggered via code commits by the team using GitLab CI minimizes human error during development. Database Schema migrations using Flyway. Hybrid cloud/bare-metal server infrastructure. (AWS, Google Cloud, Arch Linux natively on on-premise servers).

Image delivery and transformation via headless Inkscape and Cloudinary CDN API.

Scraping of 20 different ATS (*Applicant Tracking System*) providers in addition to API integrations for job listing imports and candidate exports. Data Mining and extraction from crawled job postings and candidate profiles. Algorithm design to find the best-performing overlap of auto-extracted vacancy requirements and candidate skills.

⇒ PHP, Symfony, PostgreSQL, Clojure, OpenJDK, GraalVM, Intercooler.js.

KostümKollektiv e.V.

Freelance Software Developer

Berlin

Aug 2018 – Sept 2018

Migrate old PHP4/5 codebase of a costume rental store to PHP7; audit code for security vulnerabilities and fix those. Migrate code to a Service-Oriented Architecture (SOA) using the Mikado Technique.

Add End-to-End tests and unit tests for the legacy codebase using Codeception. Add custom functionality as customer desires. Ongoing maintenance and hosting.

⇒ PHP4, PHP5, PHP7, JavaScript, Codeception

LanyBook GmbH

Freelance Software Developer

Shopware upgrade and maintenance, TLS certificate setup, plugin and theme upgrades and customizations.

⇒ Shopware, PHP, ExtJS, Smarty

Worms

August 2018

LayoutBuddy Software GmbH

Freelance Software Developer

Upgrade a Shopware plugin code base in order to make it run on the upgraded Shopware 5.4.

⇒ Shopware, PHP 7.2, ExtJS, Smarty

Berlin

May 2018

VGL Verlagsgesellschaft mbH / vergleich.org

Freelance Software Developer, Interim Team Lead

Led a growing team during a progressive modernization of a Wordpress-based site infrastructure to a microservice architecture based on Symfony 3, facilitating a separate frontend in Vue.js. TDD coaching and process implementation. Architecture design and implementation.

Optimized database schemata and query infrastructure to facilitate 3mln. visits / day. Integration of Cloudinary image delivery CDN. API integration to E-Commerce partners [connexity.com](#), [guenstiger.de](#), [billiger.de](#). Amazon MWS/AWS API integration. Research and implementation of reliable crawling/scraping algorithms for Amazon.

⇒ PHP, Symfony 3+4, MySQL, Intercooler.js, RESTful APIs.

Berlin

2016 – 2017

Medici Living Digital Services GmbH

Senior Software Developer

Greenfield implementation of an E-Commerce flat share booking site. Development of an administrative back office for customer and property management via Sonata Admin Bundle and AdminLTE. Migration of features from a legacy MVP developed in Zend Framework 2, MySQL, and Drupal to a modular, Symfony-based microservice architecture. Integrated the payment providers *Paymill* and *Adyen*. PHP, JavaScript, REST API. Developed and documented a RESTful public-facing API for B2B partners.

⇒ PHP+Symfony, MySQL, MariaDB, PostgreSQL. API interface to a ReactJS client.

Berlin

Oct. 2015 – Oct. 2016

Wine in Black GmbH

Senior PHP Developer

Implementation of a recommendation algorithm based on customer's shopping history. Memory usage reduction for CSV and XML file exports by 64%, as well as other significant optimizations. Design and implementation of an algorithm to automate voucher code generation and validation.

⇒ LEMP stack, Zend Framework 1+2, Doctrine.

Berlin

2015

Südwest Presse Online-Dienste GmbH

Web Developer

Introduced a CSS framework based on Object-Oriented CSS for a web site relaunch in 2012, reducing file size of included CSS files over 30% and significantly slowed growth of the necessary CSS instructions while the project grew. Developed a PHP based adapter solution for a legacy authentication system (REST/JSON ↔ SOAP/XML) for the publisher's ePaper software.

Co-developed and maintained templates and plugins for fCMS, a 3rd-party CMS specifically built for the publishing industry, in HTML5+CSS3, PHP and JavaScript.

Developed Wordpress plugins and themes for several of the publisher's long-form storytelling projects ([storytelling.swp.de/spielraum](#), [storytelling.swp.de/mauerfall](#), [storytelling.swp.de/karlsplatz](#)) and contributed to existing open-source plugins ([1], [2]); provided coaching and support for the journalists.

Initiated Unit Testing and Test Driven Development with `PHPUnit`, `XDebug`, and browser test automation via `NightmareJS/PhantomJS`

Introduced graceful degradation for [swp.de](#) to optimize rendering in legacy browsers (Internet Explorer 8 and 9)

Introduced `git` to retire `CVS`.

Ulm, Berlin

2011 – 2015

Uni Bayreuth, Lehrstuhl II für Angewandte Informatik

Implementation of a MIPS assembler and GUI in JAVA 8 and Swing (OpenJDK)

Bayreuth

2014

Uni Bayreuth, Lehrstuhl BWL IV für Personalwesen und Führungslehre

Freelance Software Developer

Administration of the CentOS Linux server and Windows clients

Optimized an existing OCR solution to automate scanned survey parsing form paper sheets (PHP)

Bayreuth

2009–2010

Education

University of Bayreuth

BSc. in Informatics, focus in Bioinformatics

Part-time study. Graduated successfully on 2015-03-10

Bayreuth

2007 – 2015

Universitätsklinikum Ulm

Civilian Service, Experimental Anesthesiology

Ulm

2006 – 2007

Kepler-Gymnasium

Abitur

Ulm

2006

Spoken languages

Native or native-level: German, Russian · **Fluent:** English · **Basic:** French

Skills

Programming languages: PHP, Java, JavaScript, SQL, Go. Exposure to C, C++, C#.

Web Services: REST+JSON-Schema, SOAP+WSDL. Testing and mocking with PHPUnit, Codeception.

Web technologies: HTML5, CSS3, LESS/SASS/SCSS, Webpack, Intercooler.js, Responsive Web Design (Media Queries, Feature Queries, Compatibility Shims).

Debugging, profiling: Building static code analysis (PHPStan, Phan, Psalm) into the CI pipeline. Debugging via XDebug, Profiling via Blackfire.io, XHPProf.

System administration: Strong Linux skills: Used Gentoo, Arch Linux, Debian, Ubuntu, CentOS, Mandrake, Slackware and a Linux From Scratch installation. Bash shell scripting, Network analysis (wireshark, nmap, netcat), Version Control (git, svn, hg, cvs). Long-term vim and emacs user. Maintainer of several Arch Linux packages.

Additionally: \LaTeX . IntelliJ IDEA, PHPStorm, SOLID, Design Patterns, Clean Code and Clean Architecture.