

Shakir El Amrani

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SOFTWARE Engineering

Software Developer

Software developer with 4+ years of experience and 1+ year in technical leadership. Experienced in both front-end and back-end engineering with balanced expertise across the stack. Passionate open source contributor, having contributed to projects like filp/whoops (previously used in Laravel), guzzle/psr7, and jolicode/JoliTypo, and creator of several libraries, one of which has over 170K downloads.

SKILLS

- **Programming languages:** Java, PHP, Python, JavaScript, C#, NodeJS, C, C++
- **Web programming:** Laravel, Slim, Spring Boot, React.js, Redux, HTML/CSS, SASS, Tailwind CSS, jQuery
- **DevOps & Tools:** Docker, Nginx, Apache, Nagios Core, Amazon EC2/Lightsail, Redis, PHPUnit, Webpack, Rollup, Puppeteer, Playwright, Metabase, Percona
- **Databases:** MySQL, PostgreSQL, Redis
- **Architecture:** Design Patterns, UML, SOLID Design Principles
- **Development tools:** VSCode, IntelliJ
- **Source control:** Git, GitHub, Bitbucket

WORK EXPERIENCE

PI Marketing

- **Lead Software Developer** **Jun 2025 – Nov 2025 (6 mos).**
 - Developed a new affiliate offer management system for the new send system using Spring Boot, improving operations for production teams compared to the old system.
 - Wrote integration tests for Spring Boot REST APIs with JUnit5, MockMvc, ensuring reliable CRUD operations.
 - Created a company status page with Uptime Kuma (hosted on AWS), allowing production teams to monitor infrastructure health and receive notifications when services are down.
 - Implemented an alternative infrastructure monitoring solution using Nagios Core for better reliability.
 - Tested Docker Swarm for high-availability of production applications across multiple nodes and evaluated Ceph/minIO as a distributed filesystem solution.
- **Lead Software Developer (Interim)** **Jun 2024 – May 2025 (1 yr).**
 - Led a team of 4 developers from diverse backgrounds and expertise.
 - Managed the main send system, ensuring stability, performance, and reliability.
 - Resolved disk bottleneck on the main send server, significantly improving production speed.
 - Optimized database performance using Percona tools.
 - Created business intelligence dashboards with Metabase for actionable data insights.
 - Designed UI/UX mockups with Figma and implemented designs using the Shadcn component library for the next send system.
 - Set up front-end architecture for the next send system using React, Shadcn, Redux Toolkit, and MSW for API mocking.
- **Mid-Level Software Developer** **Jun 2023 – May 2024 (1 yr).**
 - Led a team to develop Cloud Master, centralizing 20–30 cloud applications using Laravel, Inertia, and React/Redux for VPS and storage management across multiple providers; used by 40+ clients with 1400+ commits.
 - Designed the database schema and application architecture for Cloud Master using UML, applying SOLID principles (Interface Segregation, Open/Closed) and the Factory pattern for scalable, maintainable code.
 - Implemented Docker deployments with five services: PHP-FPM, Nginx, MySQL, Redis, and a worker container running Supervisor to manage Laravel queues and the Laravel Scheduler.
 - Fine tuned PHP-FPM configuration to achieve optimal performance based on production usage.
 - Documented Cloud Master API and architecture using Swagger and LaRecipe, enhancing maintainability and team understanding.
- **Junior Software Developer** **Nov 2021 – Jun 2023 (1 yr 8 mos).**
 - Worked extensively in Linux environments (Ubuntu 16 and newer, CentOS 7+, AlmaLinux), performing server administration, scripting and task automation, and software deployment.
 - Developed full-stack web applications using PHP Laravel, React.js, jQuery, Node.js, SocketIO, and Python Flask.
 - Created VPS/Storage management systems for multiple cloud providers (AWS, IBM, Oracle, DigitalOcean, Equinix, and others).

- Developed automation tools and scripts using Playwright/Puppeteer, PowerShell, Bash, to simplify operational tasks for production tasks (Newsletters Subscriber, FreeDNS domains manager, Exchange Online account and policy management, and others).
- Maintained and added new features to a PMTA Monitoring Application built with Python Flask, Angular 11, and Docker.
- Built AffiliatesConnect, a Chrome extension that automates login operations for production teams, using JavaScript and SASS, Webpack, and obfuscation techniques.
- Created Affiliates Portal using Slim/Tailwind CSS, a dashboard centralizing affiliate data, providing insights and logs on platform activity, with an API consumed by AffiliatesConnect.
- Developed network-related software: DNS lookup and enumeration, SMTP/IMAP, and subdomain enumeration tools.
- Used Microsoft Graph API and PowerShell modules to manage Azure AD resources and automate tasks.
- Setup and maintained production infrastructure including SSL certificates, firewalls, SSH, DNS configuration, and version control with Git/Bitbucket.
- Communicated in written English to provide technical support to production teams serving 40+ clients.
- Continuously working on the existing software and adding new features.
- Wrote software documentation, setup guides and usage instructions.
- Provided technical guidance and support to my team members.

Map-concepts

- **Full Stack Developer** **Jan 2021 – Jun 2021 (6 mos).**
 - Built SEO-friendly websites with Laravel, integrating Voyager as a back-office admin panel.
 - Developed showcase websites for companies and agencies in Tangier, including gulliver.ma, LAAKIL Ameublement, Alphaiz Consulting, and tzbtpt.ma.
 - Ensured all showcase websites were fully responsive across mobile and tablet devices.
 - Maintained and added features to the ACTIV TRAVAUX Invoicer application using Laravel, jQuery, and Bootstrap, including generating PDF invoices with a dynamic company stamp using DOMPDF.
 - Maintained Map-Labels, a C# ticket reservation app for FRS Tangier, leveraging MetroFramework for UI and PDFsharp for PDF processing.
 - Designed website mockups for IFMIA, a training center in Tangier, using Figma.
 - Performed advanced web scraping operations for many websites with authentication using Laravel, cURL, and the Symfony DomCrawler component (notably CMA CGM Data Scraper).
 - Collaborated with team members to resolve coding challenges and contribute to technical decisions.

EDUCATION

- **Bachelor's degree in Software and Web Development,** *2019 - 2020.*
 Université Abdelmalek Essaâdi (*ENS de Tétouan*)
 Grade: Highest Honours (Très Bien)
- **Associate's degree in Software Development,** *2017 - 2019.*
 Institut Spécialisé de Technologie Appliquée (Tanger)
 Grade: Highest Honours (Très Bien)
- **Learning English Program,** *Sep 2025 - present.*
 Wall Street English (Online)

CERTIFICATIONS

- **CCNAv7:** Introduction to Networks - Cisco (Jul 2022)
- **CCNAv7:** Switching, Routing, and Wireless Essentials - Cisco (Jul 2022)

AWARDS

- **PHP Innovation Award Winner** – phpclasses.org (Feb 2022)
 Developed a PSR-7 compatible query-string-based routing library
<https://github.com/AmraniCh/ajax-router>
- **PHP Innovation Award – 3rd Place** – phpclasses.org (Dec 2021)
 Built an OOP-based FTP file management library with 170K+ downloads
<https://github.com/lazzard/php-ftp-client>

Organizations

- **Founder, Lazzard** – Open Source Initiative
 Aims to bring together passionate developers to improve their skills through real open source projects while increasing Morocco's OSS contributions worldwide.
<https://github.com/lazzard>