

Artur Nawrot

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Highly skilled Software Engineer with a strong command of PHP and Python, specializing in complex architectural frameworks and sophisticated design patterns. Distinguished for developing clean, scalable solutions that address intricate business challenges. Expert in enhancing software reliability and maintainability through advanced testing protocols, including comprehensive unit and integration tests. Proficient in executing complex API integrations with platforms such as Stripe and 4over, ensuring seamless functionality and system coherence. Dedicated to advancing code quality and architectural excellence in high-stakes environments.

Skills

Back-End Web Development, Linux System Administration, Git, Docker, Unit Testing, Software Design Patterns, Python, C#, PHP, Pandas, NumPy, Laravel, Django, React.js, WordPress, Stripe API, HTML, JavaScript, Bootstrap, Network Security, Penetration Testing, Cybersecurity Tools.

Education

Bachelor of Science in Computer Science, August 2021 – December 2025
Augusta University, Augusta GA

Experience

Legacy Software LLC (November 2023 - Present), Remote

Software Engineer

11/2023-Now

- Developed an API client from scratch using PHP for 4over, a leading printing company. (See *Projects* section)
- Set up Google Cloud infrastructure to support and host the entire application, ensuring scalability and reliability.
- Created a custom WordPress plugin to integrate the API client seamlessly with the website, enhancing functionality and user experience.
- Engaged in meetings with 4over developer teams and the client to ensure alignment and address technical requirements.
- Ensured robust and efficient communication between the website and the 4over API, improving operational efficiency.

Projects

4over API Client Library Project

<https://github.com/arturnawrot/4over-api-php>

Developed a PHP client library for the 4over API, designed to facilitate eCommerce functionalities such as order processing, product management, and shipping logistics.

- Engineered a sophisticated object-oriented architecture that encapsulates API functionalities into distinct service classes, promoting code reusability and separation of concerns.
- Implemented advanced design patterns, including Service Factory and Abstract Factory, enhancing the library's flexibility and enabling dynamic service instantiation based on runtime requirements.
- Developed a custom middleware for handling HTTP requests and responses, integrating caching mechanisms to optimize API interaction and performance.
- Created a comprehensive suite of entities and interfaces to model the business domain, enabling type-safe operations and streamlined data transformations across the application.

SaaS Stripe Integration Boilerplate

<https://github.com/arturnawrot/saas-stripe-boilerplate>

Engineered a robust SaaS framework for subscription management, integrating advanced Stripe functionalities and Docker for consistent deployment environments.

- Implemented a secure login and registration system, enabling monthly subscriptions with options for a free trial period. Managed lifecycle events such as automatic renewals and cancellations seamlessly.
- Developed functionality for users to add and remove credit cards, with automatic suspension of subscriptions in case of payment failures or chargebacks, enhancing user trust and service reliability.
- Ensured real-time data integrity between the local database and Stripe through effective caching strategies, minimizing discrepancies and improving performance.
- Executed extensive integration and unit tests covering all aspects of Stripe integration, such as chargeback handling, preventing duplicate card entries, and ensuring timely free trial expirations.
- Leveraged Docker to maintain consistent environments across all stages of development, testing, and production, facilitating smoother transitions and deployment processes.

Accomplishments

- Identified XSS (Cross-Site Scripting) and Open-Redirect vulnerabilities on one of the internet's largest websites.
- Secured 2nd place in a county-level chess tournament.
- Developed and automated a stock trading strategy using NumPy and Pandas, achieving a Sharpe ratio of 1.2 over 15 years.