

Ahmad Bilal

Senior Software Engineer

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PROFILE

A highly skilled and results-driven Senior Software Engineer & Solution Architect with 5+ years of experience in designing, developing, and maintaining scalable web applications. Specialized in PHP, Laravel, Node JS, Next JS, React JS, Angular, Vue JS, and proficient in DevOps practices and AWS cloud solutions, ensuring seamless deployment, automation, and system reliability. Experienced in architecting robust software solutions, optimizing performance, and implementing best practices in CI/CD, containerization (Docker,), and cloud infrastructure. Adept at practicing Agile development with Scrum methodologies, ensuring efficient sprint planning, daily stand-ups, iterative development, and continuous delivery. Passionate about continuous learning, innovation, and collaborating with cross-functional teams to drive project success. A problem solver with a keen eye for detail, committed to delivering high-quality, maintainable, and efficient software solutions that align with business goals.

SKILLS

- PHP
- Next JS
- DevOps
- MySQL
- CSS 3
- Laravel
- React JS
- AWS
- Postgre SQL
- Tailwind
- JavaScript
- Vue JS
- Docker
- Bootstrap 4
- Node JS
- Angular
- Mongo DB
- HTML 5

PROFESSIONAL EXPERIENCE

- | | |
|--|---|
| 08/2019 – present
Lahore, Pakistan | Senior Software Engineer
<i>NextBridge</i> |
| 06/2018 – 08/2018
Lahore, Pakistan | Internship
<i>NextBridge</i> |
| 09/2018 – 02/2019
Sialkot, Pakistan | Internship
<i>Comsats University Software House</i> |

PROJECTS

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|-------------------|---|
| 01/2022 – present | <p>Weatec – Internet Usage Monitoring & Management System (Revamp)</p> <p>Description: Led the revamp of Weatec, transitioning it from a monolithic to a microservices-based architecture for improved scalability, maintainability, and performance. The new system, developed with Laravel (backend) and React.js (frontend), enables real-time internet usage monitoring, user accountability, and content filtering. Deployed on AWS cloud infrastructure, ensuring high availability, security, and cost efficiency while following Test-Driven Development (TDD) for robust, high-quality software.</p> <p>Technologies: Laravel, React.js, Microservices, AWS (EC2), PostgreSQL, Docker, Kubernetes, CI/CD, API Gateway, PHPUnit, Jest</p> <p>Role & Responsibilities:</p> <ul style="list-style-type: none">• Designed and implemented a microservices-based backend in Laravel, improving system modularity, fault tolerance, and scalability. |
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- Developed **RESTful APIs** for seamless **service-to-service communication** in a distributed environment.
- Built a **scalable, dynamic frontend** using **React.js**, enhancing **user experience, responsiveness, and performance**.
- Led **Test-Driven Development (TDD)** practices, implementing **unit tests, integration tests, and end-to-end testing** using **PHPUnit for Laravel and Jest for React.js**.
- Managed **AWS cloud infrastructure**, utilizing **EC2 for compute event-driven tasks**.
- Designed and optimized **PostgreSQL schemas**, ensuring **efficient query performance and data integrity**.
- Implemented **Docker for containerized deployment**, allowing **automated scaling and efficient resource management**.
- Established **CI/CD pipelines for automated builds, testing, and deployment**, ensuring **zero-downtime releases**.
- Led an **Agile development team**, overseeing **sprint planning, daily stand-ups, retrospectives, and code reviews** to maintain high-quality software.
- Applied **DevOps best practices**, utilizing **Infrastructure as Code (IaC), centralized logging, and proactive monitoring**.

Key Achievements:

- Successfully transitioned **Weatec** from a **monolithic** to a **cloud-native, microservices-driven** architecture.
- Increased **code reliability and maintainability** by implementing **TDD**, reducing bugs and improving long-term stability.
- Enhanced **system scalability and reliability** through **event-driven architecture, containerization, and AWS auto-scaling**.
- Improved **deployment efficiency** via **automated CI/CD pipelines, automated testing, and real-time monitoring**.
- Effectively **led and mentored** a cross-functional team, fostering **collaboration and Agile best practices**.
- Optimized **AWS resources**, achieving **cost savings and performance improvements** through **serverless computing and container orchestration**.

09/2020 – present

Weatec - Internet Usage Monitoring & Management System

Description: Designed and developed a **large-scale, event-driven system** to track and manage **internet usage**, ensuring user accountability by monitoring **browsing activities, time spent on websites and mobile apps, and enforcing content filtering policies**. The system utilized **real-time event processing** to provide accurate and timely insights into user activity.

Technologies: PHP, Laravel, jQuery, Ignite UI, Smarty Templates, PostgreSQL

Role & Responsibilities:

- Led the **backend development** using **PHP and Laravel**, implementing **event-driven architecture for real-time data tracking and analytics**.
- Designed and optimized **high-performance database schemas** in **PostgreSQL**, ensuring **scalability and efficient data retrieval** for millions of records.
- Managed **staging and live servers**, handling **deployment, monitoring, and issue resolution** to ensure **system uptime and reliability**.
- Utilized **Smarty Templates** for **dynamic page rendering**, enhancing **frontend maintainability and performance**.
- Enforced **security best practices**, including **access controls, encrypted data storage, and secure authentication mechanisms**.
- Led an **Agile development team**, conducting **sprint planning, daily stand-ups, and code reviews** to ensure high-quality deliverables.
- Implemented **server optimizations** to streamline deployment processes.
- Collaborated with **cross-functional teams**, including **UX designers, DevOps, and business stakeholders**, to align system functionalities with user requirements.

Key Achievements:

- Successfully designed and managed a **high-availability, large-scale application**, ensuring **real-time data processing and monitoring**.
- Strengthened expertise in **event-driven architecture, database optimization, and large-scale system management**.
- Improved system efficiency through **server performance tuning, caching strategies, and automated deployments**.
- Effectively **led and mentored a development team**, improving collaboration and Agile adoption.