

Shan Ali

Sr. Software Engineer

✉ shan.ali7722@gmail.com ☎ +923027829698 📍 Khanpur, Punjab, Pakistan

🌐 linkedin.com/in/shanali7722 🇵🇰 Pakistan

👤 Profile

Senior Laravel & Vue.js Full-Stack Developer | DevOps Enthusiast

Results-driven **Full-Stack Developer** with expertise in **Laravel (PHP)** and **Vue.js (Vue 2 & 3)**, specializing in **scalable, high-performance applications** across **healthcare, education, travel, and workforce sectors**. Proven ability to **modernize legacy systems, optimize backend and frontend performance, and implement DevOps best practices** for enterprise applications.

Key Skills & Expertise:

- **Laravel & Vue.js Full-Stack Development:** Architecting **robust Laravel backends** while building **modern, interactive, and scalable Vue.js frontends**.
- **Vue.js Ecosystem Mastery:** Experienced with **Vue Router, Vuex, Pinia, Composition API**, and state management for optimized front-end experiences.
- **DevOps & CI/CD Implementation:** Successfully **automated deployment pipelines** using **GitHub Actions** for **Vue, React, and Laravel apps**. Currently implementing **Dockerized deployments** with **zero downtime**.
- **Performance Optimization:** Enhanced **backend and frontend efficiency**, achieving **40-80% improvements in query execution times** and reducing API response times.
- **Legacy System Modernization:** Migrated applications from **CakePHP, Yii, and older Laravel versions (Laravel 6)** to **Laravel 10 + Vue.js**, improving scalability and maintainability.
- **Cloud & Infrastructure Expertise:** Experienced in **AWS (S3, EC2), Firebase, Pusher, Stripe** for payment integration, and **DigitalOcean** hosting.

Currently expanding my **DevOps expertise**, focusing on **Dockerized backend deployments** with **GitHub Actions** for **seamless, zero-downtime releases**. Passionate about **building highly optimized, scalable applications** by combining the power of **Laravel and Vue.js**.

📁 Professional Experience

Brainx Technologies

10/2020 - present

Sr. Software Engineer | Full-Stack Laravel & Vue.js Developer

Lahore, Pakistan

Software Development & System Architecture:

- **Developed & optimized** full-stack applications using **Laravel (PHP) & Vue.js (Vue 2 & 3)**, ensuring high performance and scalability.
- Architected and implemented **robust backend solutions** while enhancing front-end interactivity using **Vue.js**.
- Successfully **migrated and modernized** legacy systems (**CakePHP, Yii, older Laravel versions**) to **Laravel 10 + Vue.js**, improving system maintainability.
- Led **database query optimizations**, achieving **40-80% improvements** in query execution times and reducing API response latency.

Technical Leadership & Team Collaboration:

- **Managed and mentored** a team of **Laravel developers**, ensuring best coding practices and guiding their professional growth.

- Conducted **code reviews and knowledge-sharing sessions**, enforcing high-quality standards across projects.
- Collaborated with **cross-functional teams** (UI/UX, Mobile, QA, and DevOps) to align **technical strategies with business goals**.
- Provided **technical direction and problem-solving** support for critical development challenges.

DevOps Learning & CI/CD Contributions:

- Implemented **basic CI/CD pipelines** using **GitHub Actions** for Laravel, Vue.js, and React applications, automating testing and deployments.
- Currently **learning and experimenting** with **Docker-based backend deployments**, focusing on **containerization and zero-downtime strategies**.
- Working towards **enhancing deployment workflows** by integrating **advanced DevOps tools and automation practices**.

Performance Optimization & System Scalability:

- Diagnosed and **resolved performance bottlenecks**, significantly improving system efficiency and API response times.
- Implemented **caching strategies (Redis, Memcached)** and **load balancing**, ensuring smooth handling of high-traffic applications.
- Designed **modular and reusable backend services**, optimizing development efficiency and resource utilization.

Fiverr

09/2018 - 09/2020

Freelance Developer (PHP, C++, MySQL)

Remote

- Completed **30+ freelance projects** for clients worldwide, specializing in **PHP-based web applications, C++ programming, and MySQL database management**.
- Developed **custom web solutions, small business websites, and database-driven applications**.
- Designed and implemented **CRUD operations, RESTful APIs, and backend functionalities** for dynamic websites.
- Provided **debugging, performance optimization, and troubleshooting** support for various clients.
- Worked on **custom scripts, automation tasks, and data processing applications** using C++ and PHP.
- Gained hands-on experience in **client communication, project estimation, and deadline management**.

Education

Bachelors in Computer Science (BSCS)

10/2016 - 09/2020

Punjab University College of Information Technology (PUCIT)

Lahore, Pakistan

Projects

Tripio Travel App

07/2024 – present

Instantly Create Smart, Personalized Itineraries for Every Adventure

Role: Backend & Frontend Developer

Contributed to developing **Tripio**, a smart travel app that generates **personalized itineraries** using an AI-driven recommendation system.

Key Contributions:

- **Optimized database queries**, reducing query execution times by **50%+** by refining queries and **minimizing response data**, improving app performance in **low-internet regions**.
- **Enhanced the Core Algorithm**, providing **backend support** to arrange activities within personalized itineraries intelligently, improving user engagement and satisfaction.
- **Developed a Web Version** of the mobile app with limited features using **Vue.js 3**, ensuring a **seamless cross-platform experience**.
- **Built a Web Guest Version** of the app using **Vue.js 3**, allowing non-registered users to explore itineraries and get a preview of the app's functionalities.
- **Implemented the Badges Feature**, awarding users based on specific criteria to boost engagement and gamify the experience.
- **Implemented Itinerary Notes**, allowing users to store and manage **flight details (fetched from third-party APIs using flight numbers)**, **accommodation details**, and **essential travel checklists**.
- **Implemented Custom Activities**, enabling users to **add and manage personalized activities** in their itineraries.
- **Developed Collaborator and View-Only Roles**, allowing itinerary creators to **assign different access levels to users**, ensuring **controlled collaboration and shared planning**.
- **Optimized API responses** to reduce unnecessary data transmission, enhancing speed and responsiveness.
- **Collaborated with the mobile development team** to ensure smooth API integration and data consistency.

Technologies Used:

Backend: Laravel (PHP), MySQL

Frontend: Vue.js 3, Laravel Blade

Cloud & Infrastructure: AWS (S3, EC2)

Integrations: Third-party flight APIs, Google Map APIs

WorkReadyMobile – Empowering Adult Learners for Career Success

02/2021 – present

A Digital Learning & Retention Platform to Support ABE Students & Institutions

Role: Project Supervisor (Previously Lead Developer)

Supervising and managing the **ABE Student Retention Platform**, a web-based solution developed in collaboration with **AdvanceNet Labs** and **Dallas County Community College District (DCCCD)** to enhance student engagement and retention in **Adult Basic Education (ABE)** programs.

Current Responsibilities as Project Supervisor:

- **Leading the development team**, overseeing architecture, feature implementation, and system improvements.

- **Managing project workflows, timelines, and deliverables**, ensuring smooth coordination between developers, stakeholders, and institutional partners.
- **Reviewing and optimizing code quality**, enforcing best practices, and conducting code reviews to maintain system integrity.
- **Supervising feature enhancements, bug fixes, and integrations** while ensuring system scalability and security.
- **Coordinating with stakeholders** to define project requirements, milestones, and performance benchmarks.
- **Overseeing infrastructure and database optimizations**, ensuring high availability and performance.

Previous Contributions as Lead Developer:

- **Upgraded the project from Laravel 6 to Laravel 10 and PHP 7.4 to PHP 8.3**, ensuring compatibility with modern technologies and improving application performance.
- **Migrated and refactored Blade and jQuery code to Vue.js (Vue 2, Vuex, Vue Router)**, enhancing frontend maintainability and scalability.
- **Designed and implemented a custom Google Calendar clone** with full support for **time zone variations**.
- **Integrated DocuSign** for secure and seamless digital document signing.
- **Enhanced code quality** by addressing **technical debt**, optimizing queries, and enforcing coding standards.
- **Integrated Cornerstone and Jobtimize** to streamline **recruitment and job-matching workflows**.
- Developed and integrated key modules, leading to:
 - **40% reduction** in database query execution times.
 - **50%+ improvement** in overall project performance through **code optimization and refactoring**.
- Developed and implemented key features, including:
 - **Attendance Module** for student participation tracking.
 - **Messenger Replies Module** (Facebook-style single-level comments).
 - **Notes/Assignments Module** for academic tracking.
- **Pusher & Firebase Notifications** for real-time updates.
- **Reporting Module** for actionable insights.
- **Forms for document signing**, allowing students to **digitally sign** onboarding documents and other required paperwork.

Technologies Used:

Frontend: Vue.js (Vue 2, Vuex, Vue Router)

Backend: Laravel (PHP), MySQL

Cloud & Services: AWS (S3, EC2), Firebase, Pusher

Integrations: Cornerstone, Jobtimize, DocuSign

Dosing Made Easy – Smart & Precise Medication Dosage Calculator

03/2024 – present

Precision for Personalized & Safe Medical Dosage Recommendations

Role: Full-Stack Developer & System Architect

Developed **Dosing Made Easy**, an intuitive web application designed to **simplify and streamline precise medication dosage calculations**. Built with **Vue.js and Laravel**, the system integrates **real-time patient data analysis** to ensure **accurate, tailored prescriptions** based on **medical reports, diseases, and patient health conditions**.

Key Contributions & Features:

- **Developed the complete system**, implementing a seamless **frontend (Vue.js 3)** and **backend (Laravel, MySQL, AWS)** for high performance and scalability.
- **Refined medical data**, structuring and optimizing **medicine-disease relationships** to improve **dosage accuracy** and ensure relevance in real-world medical applications.
- **Custom Dosing Calculations**, dynamically generating **personalized medication dosages** based on patient data and disease-specific parameters.
- **Dynamic Medical Insights**, allows healthcare professionals to **calculate and adjust dosing values in real-time** for more effective treatment plans.
- **Developed a Seamless Subscription-Based Payment System**, integrating **Stripe** for secure and **hassle-free payment processing**.
- **Optimized system performance**, reducing query execution times and ensuring **low-latency** responses for users in areas with slow internet connectivity.
- **(In Progress) Implementing AI-powered prompt Engineering**, transitioning dosage calculations from **traditional query-based methods** to an **AI-driven model** for enhanced accuracy and automation.

Technologies Used:

Frontend: Vue.js 3

Backend: Laravel (PHP), MySQL

AI Integration (In Progress): Prompt Engineering with Medical Dataset

Cloud & Infrastructure: AWS (S3, EC2)

Payment Processing: Stripe

Baritastic - Bariatric Surgery & Weight Loss Support App

06/2022 - 06/2024

A Smart, All-in-One App for Tracking Nutrition, Progress, and Post-Surgery Success

Role: Full-Stack Developer (Backend & Frontend)

Developed and optimized **Baritastic**, a leading mobile and web application designed to support **bariatric surgery patients and medically managed weight loss programs**. Migrated the system from **CakePHP** to a modern tech stack with **Vue.js (frontend)** and **Laravel (backend)**, significantly improving **performance, scalability, and user experience**.

Key Contributions:

- **Migrated the codebase** from **CakePHP** to **Laravel & Vue.js**, modernizing the system for **better performance and maintainability**.
- **Optimized database queries**, reducing execution time by **80%**, leading to a smoother and faster user experience.
- **Refactored and optimized key operations**, achieving a **30% reduction in processing time**.
- **Enhanced mobile API performance**, streamlining API requests and reducing processing and development time.
- **Automated patient workflow transitions**, implementing **predefined conditions** to increase operational efficiency.
- **Developed and implemented Calendar Events**, ensuring **seamless handling of time zone variations**.
- **Designed and built a Super Admin Dashboard**, transitioning from **CakePHP** to **Laravel & Vue.js** for improved **management and functionality**.

- **Upgraded Laravel from version 8 to 9**, ensuring compatibility with the latest technologies and security updates.
- **Improved code quality**, addressing **technical debt**, and enforcing **coding standards** to maintain consistency.
- **Provided ongoing user support**, troubleshooting **customer issues**, and ensuring **system stability**.
- **Delivered detailed reports and maintained clear communication** with stakeholders and healthcare providers.

Technologies Used:

Frontend: Vue.js (Vue 2, Vuex, Vue Router)

Backend: Laravel (PHP), CakePHP, MySQL

Cloud & Infrastructure: AWS (S3, EC2)

API & Automation: RESTful APIs, Automated Workflows

Medesto - Intelligent Pharmacy Patient Management System

10/2023 - 06/2024

A Smart, Scalable Solution for Medication Management and Patient Engagement

Role: Backend & Frontend Developer

Key Contributions:

- **Optimized database queries**, reducing execution time by **50%**, enhancing overall system performance and user experience.
- **Developed and integrated the Footer Messenger**, improving **real-time communication** within the platform.
- **Identified, debugged, and resolved system issues**, ensuring **stability** and **seamless functionality**.
- **Implemented frontend and backend fixes**, improving code quality, responsiveness, and overall user experience.
- **Refactored existing codebase**, addressing **technical debt** and enhancing maintainability.

Technologies Used:

Frontend: Vue.js 2, TypeScript

Backend: Laravel (PHP), MySQL

GLIST - On-Demand Beauty Services Marketplace

07/2023 - 09/2024

Connects Beautician Experts to End Users

Role: Backend Developer

Key Contributions:

- **Implemented Pusher and Firebase Events**, enabling **real-time updates** with **seamless time zone handling** for accurate notifications.
- **Integrated Google Maps API** to **calculate travel time dynamically**, improving booking accuracy and user experience.
- **Developed a Reporting System**, providing **insights into bookings, payments, and service trends** for better decision-making.
- **Implemented Booking Rescheduling**, allowing users to modify their appointments efficiently.
- **Resolved Payment Processing Issues** with **Stripe**, ensuring **secure transactions** and **reducing payment failures**.
- **Designed and implemented a Refund Calculation System**, determining **percentage-based refunds** based on **booking time vs. actual appointment date**.
- **Performed ongoing maintenance and critical bug fixes**, ensuring **application stability, security, and optimal performance**.

Technologies Used:

Backend: Laravel (PHP), MySQL

Cloud & Hosting: DigitalOcean

Integrations: Google Maps API, Stripe, Firebase, Pusher

CORD Pathway Planner - Career Pathway Mapping Platform

09/2023 - 12/2023

A Scalable Solution for Visualizing and Exporting Career Pathways in Education & Workforce Planning

Role: Lead Developer & Project Supervisor

Supervised the development of **CORD Pathway Planner**, a platform designed to help educational institutions and workforce development agencies **map career pathways** by aligning educational programs with industry requirements.

Key Contributions:

- **Designed and implemented draggable nodes/boxes functionality**, allowing users to **position elements freely** and **export structured pathway data seamlessly into PDF format**.
- **Proposed and developed the system architecture**, ensuring **scalability, maintainability, and an optimal user experience**.
- **Led the development team**, enforcing **best coding practices** and maintaining **high-quality code standards** to enhance system performance and maintainability.

Technologies Used:

Frontend: Vue.js 3, Pinia

Backend: Laravel (PHP), MySQL

Cloud & Infrastructure: AWS (S3, EC2)

IYF Workbooks - Online Survey & Assessment Platform for Youth Development

11/2020 - 02/2021

A Scalable, Multi-Lingual Solution for Evaluating Program Effectiveness & Enhancing Youth Engagement

Role: Full-Stack Developer

Developed **IYF Workbooks**, an **online platform** designed to help organizations **create, publish, and analyze surveys and assessments** for youth development programs. The platform enables organizations to **evaluate program effectiveness, measure participant engagement, and generate data-driven insights** to enhance youth initiatives worldwide.

Key Contributions:

- **Built the platform from scratch**, ensuring **scalability, customization, and long-term maintainability**.
- **Implemented Multi-Lingual Support**, allowing the platform to cater to a **global audience**.
- **Developed Comprehensive Reporting Features**, enabling organizations to **analyze survey results and measure program effectiveness with data visualization tools**.
- **Ensured Full Mobile Responsiveness**, optimizing the platform for **seamless performance on both desktop and mobile devices**.

Technologies Used:

Frontend: Vue.js 2

Backend: Laravel (PHP), MySQL

Cloud & Hosting: AWS EC2

Technical Skills

Laravel (PHP) – Full-stack development, API design, performance optimization

Vue.js (Vue 2 & Vue 3) – SPA development, Vuex, Pinia, Vue Router

MySQL & Database Management – Query optimization, indexing, relational data modeling

JavaScript (ES6+) – Frontend enhancements & dynamic UI

RESTful APIs & Backend Development – API design, authentication (OAuth, JWT)

GitHub Actions (CI/CD) – Automated deployment pipelines for Laravel, Vue.js, and React apps

Docker (Learning & Implementing) – Currently working on backend containerization and zero-downtime deployment

AWS (S3, EC2, RDS, Lambda) – Basic cloud infrastructure, data storage, and app hosting

Linux Server Management & DigitalOcean – Application hosting, configuration & deployment

Git, GitHub, Bitbucket

Stripe (Payments), Firebase, Pusher

Soft Skills

Leadership & Team Management

Leading Laravel developers and mentoring junior engineers.

Critical Thinking & Decision-Making

Successfully migrated legacy systems from CakePHP/Yii to Laravel 10.

Adaptability & Continuous Learning

Actively learning DevOps, expanding expertise in Docker and deployment automation.

Problem-Solving & Debugging

Optimized query execution time by **40-80%**, resolving complex backend issues.

Time Management & Productivity

Delivered projects on tight deadlines, managing **team workflows** and **CI/CD pipelines**.

Client Communication & Conflict Resolution

Worked with **international clients** on Fiverr to develop custom web applications.

Languages

Urdu – Native Proficiency • **English** – Fluent (Professional & Technical Communication) • **Punjabi** – Conversational