

ZAYED HASSAN

Full Stack Developer | PHP-Laravel, JS, MySQL, AWS

<https://zayed-hassan.dev> | <https://linkedin.com/in/z4yed> | <https://github.com/z4yed>

Full-Stack Developer with **5 years of experience** building and scaling production applications serving **100k+ global users**. Strong focus on **Laravel, Vue.js, and AWS-based** systems. Proven track record of optimizing system performance (reducing API latency by 97%) and building **automated serverless media pipelines**. Applied **Service, Repository, and Observer patterns** to decouple business logic, improving testability and reducing feature development time.

Work Experience

TechCare Inc., Dhaka, Bangladesh (Hybrid)

Feb. 2024 - Present

Full Stack Developer (Laravel, Vue.js, AWS)

- **Serverless Media Architecture:** Architected and implemented an automated media processing pipeline using AWS Lambda, MediaConvert, and EventBridge. Successfully **processed 3,000+ videos**, automating multi-resolution transcoding, thumbnail generation, multi-language captioning (AWS Transcribe/Translate), and designed system for **transferring ~6TB** of data from one S3 bucket to another.
- **Full-Stack Scalability:** Developed the application using **Laravel, FilamentPHP, Inertia.js**, and **Vue.js**, ensuring performance stability for a user base of **100k+**.
- **DevOps & CI/CD:** Engineered CI/CD pipelines from scratch using **GitHub Actions**, achieving automated testing and deployment.
- **Infrastructure as Code:** Managed cloud infrastructure using **AWS CloudFormation** to provision and maintain S3 buckets, CloudFront distributions, SSM Parameter Store, etc. configurations.
- **Security Implementation:** Integrated **Discord OAuth** and designed a robust **RBAC** (Role-Based Access Control) system. Implemented **Webhook signature verification** to secure third-party data (Stripe, PayPal) streams.

BJIT Limited, Dhaka, Bangladesh (Remote)

Aug. 2021 - Feb. 2024

Software Engineer (Laravel, React.js, AWS)

- **Performance Optimization:** Diagnosed and resolved critical **N+1 query issues** on a high-traffic landing page. Reduced API response time from **10s to <300ms** (97% improvement) by optimizing Eloquent queries, indexing database and caching results.
- **Architectural Leadership:** Enforced Clean Code principles by implementing **Repository, Observer, and Service Layer patterns**, significantly improving code maintainability and testability.
- **Security & Authentication:** Secured REST APIs using **JWT and RBAC**. Designed secure data access layers using parameterized queries, **database transactions**, and strict validation to ensure data integrity.
- **Team Leadership:** Mentored junior developers, established **coding guidelines**, Swagger API documentation, and **conducted code reviews** to ensure adherence to architectural standards.
- **Automation:** Configured AWS CodePipeline for continuous delivery and set up **Cron jobs** for scheduled background task management.

Key Projects

- **schoolism.com (Canada)**

Schoolism is a world-renowned online art education platform where I designed a scalable **AWS-based pipeline** using Lambda, MediaConvert, EventBridge, and S3 to automate video transcoding, captioning, and delivery for **3,000+ videos**.

- **venturetv.jp (Japan)**

Led backend architecture using Laravel and Clean Code principles to build scalable REST APIs. Automated legacy data migration via custom **Artisan commands** and optimized database performance, specifically resolving complex **Japanese character search issues** through precise **MySQL collation** configurations.

- **graze.com (UK)**

Maintained backend system health for a major UK subscription brand, troubleshooting and resolving critical issues to ensure high availability for online retail operations.

Technical Skills

- **Backend:** PHP (Laravel v8.x-12.x), FilamentPHP (v3.x-4.x), Node.js (AWS Lambda), RESTful APIs, Redis (Caching/Queues), MySQL (v8+) (Complex Queries/Optimization).
- **Frontend:** Vue.js, Vuex, Nuxt.js, Inertia.js, React.js, Redux, Tailwind CSS, DaisyUI.
- **Cloud & DevOps:** AWS (EC2, CloudFormation, Lambda, MediaConvert, Transcribe, S3, CloudFront, EventBridge), Docker, AWS CodePipeline, GitHub Actions.
- **Architecture & Security:** Repository Pattern, Service Layer, Observer Pattern, RBAC, JWT, OAuth2, Webhook Security, TDD.
- **Tools:** TablePlus, Expose, Jira, Postman, Trello, Notion, PhpStorm, Cursor, Docker, etc.

Education

- **IUBAT University**

Jan. 2017 - Jan. 2021

- Bachelor of Computer Science and Engineering (BCSE)
- **GPA: 3.97 / 4.00**

Certifications

- **Scrum Team Member Accredited Certificate (2021)**
- **IELTS General Training: 6.5**