

# Asaduzzaman “Asad” Pavel

Software Engineer

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## SKILLS

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**Backend:** Go, Node.js, JavaScript, TypeScript, PHP (Laravel, Symfony), C++, Python

**Frontend:** HTML, CSS, TypeScript, JavaScript, Angular, Svelte, React, Vue.js

**Database:** MySQL, PostgreSQL, MongoDB, Redis

**Operations:** AWS, GCP, Kubernetes, Linux, Ansible, Docker, Git, Jenkins, Grafana, Prometheus, Terraform, ELK Stack

**RPC & API:** RESTful APIs, gRPC, WebSocket, GraphQL, TCP/UDP

**Practices:** Agile, Microservice, Software Development Lifecycle (SDLC)

**Languages:** English (Professional Proficiency), Bengali (Native)

## WORK EXPERIENCE

**Freelance consultant**

Oct. 2022 – Present

*Full-Stack & DevOps*

*Dhaka, Bangladesh*

- Developed a PHP and Go-based microtransaction wallet for an online game, automating processes and achieving near real-time transaction processing, eliminating manual processing delays by 80%
- Deployed and maintained on-premise Kubernetes cluster for cruise ship operations with high availability configuration, ensuring 99.9% uptime for critical maritime infrastructure
- Developed full-stack Go application with Vue.js frontend, implementing GraphQL API for efficient data fetching and real-time updates
- Built monitoring and alerting infrastructure using Prometheus, Alertmanager and grafana

*Tech Stack: Go, PHP (Laravel), Node.js, JavaScript, TypeScript, Redis, GitHub Actions, AWS, Kubernetes, Apache Kafka, gRPC*

**Allrites**

09/2022 – 12/2022

*DevOps Engineer (contract)*

*(Remote) Singapore*

- Architected and developed multi-region Infrastructure as Code (IaC) utilizing Kubernetes and AWS services.
- Reduced website response time from over 4 seconds to sub-second levels through extensive front-end and back-end optimizations, significantly enhancing user experience and engagement.
- Collaborated with cross-functional teams to troubleshoot and resolve system issues promptly, leading to improved system reliability and uptime.

*Tech Stack: PHP (Laravel), Node.js, JavaScript, TypeScript, Vue.js, Redis, Mysql, Pulumi, AWS, Kubernetes, AWS CodePipeline*

## Coinread

*Lead Software Engineer*

03/2017 – 08/2022

*(Remote) London, United Kingdom*

- Architected high-performance backend microservices in Go with gRPC communication and Apache Kafka message streaming, achieving sub-100ms response times under heavy load
- Designed and implemented real-time microservices architecture with API gateway for centralized routing and authentication, enabling seamless integration with 150+ external services.
- Developed and implemented outlier detection and trust-score algorithms, resulting in an 85% improvement in data accuracy, thereby enhancing decision-making processes
- Achieved annual cost savings of \$40,000 by optimizing server and storage usage, leading to significant reductions in operational expenses
- Implemented CI/CD pipelines across 20+ microservices to automate testing and deployment, significantly reducing time-to-market. Orchestrated containerized applications with Kubernetes for efficient scaling and resource optimization
- Established comprehensive monitoring and alerting systems using Datadog and OpenTelemetry, reducing mean time to recovery (MTTR) by 60%
- Mentored 5 junior engineers, providing technical guidance and fostering their professional development through hands-on training and support
- Delivered comprehensive presentations of technical solutions and project updates to stakeholders, effectively communicating complex concepts and fostering alignment on project goals and timelines

*Tech Stack: Microservices, Golang, Python, Node.js, TimescaleDB / PostgreSQL, Redis, Angular, React, JavaScript, TypeScript, Kubernetes, Docker, Terraform, GCP, AWS, Datadog, OpenTelemetry, Grafana, Prometheus, gRPC*

## Eleven Digital, Inc.

*Full Stack Engineer*

06/2016 – 02/2017

*(Remote) New York, United States*

- Developed hybrid mobile ticketing platform using Ionic and Angular, achieving 25,000+ installs within first week with real-time ticket sales
- Built RESTful APIs with Node.js and WebSocket integration for live event updates and instant ticket availability notifications
- Designed YouTube Ad-tech platform connecting influencers with advertisers, implementing automated campaign matching and performance tracking
- Collaborated with cross-functional teams to gather requirements and implement features that improved user experience and system performance.

*Tech Stack: Node.js, Angular, Ionic, Redis, AWS, ngrx, Redux*

**VDYO Pty Ltd**  
*Full Stack Engineer*

07/2014 – 06/2016  
*(Remote) Brisbane, Australia*

- Built a multi-tenant SaaS platform for VOD and video streaming with PHP, MySQL, Redis, and AWS.
- Implemented features like HLS video streaming using DRM encryption, and Video Heat Map Analytics.
- Successfully adopted by prominent media companies, including AACTA (The Australian Academy of Cinema and Television Arts Awards).
- Designed and implemented a scalable multi-tenant architecture, ensuring data isolation and security through Role-Based Access Control (RBAC) and Attribute-Based Access Control (ABAC).

*Tech Stack: PHP (Laravel), JavaScript, Node.js, Python, MySQL, Redis, Jenkins, FFmpeg, AWS, Elasticsearch*

**CodeGenie**  
*Founder*

12/2013 – 06/2014  
*(On-site) Dhaka, Bangladesh*

- Developed high-performance image CAPTCHA solver using image segmentation and hash-based matching algorithms, achieving 97% accuracy with 50ms response time through optimized preprocessing and efficient hash lookup systems
- Developed algorithms for inventory monitoring, checkout automation, and CAPTCHA solving
- Implemented proxy support and behavior simulation to avoid retailer detection systems
- Conducted market research on release trends to maintain competitive advantage

*Tech Stack: PHP, JavaScript, Node.js, MySQL, Memcache*

**Stuffinabox Solutions LLC**  
*Full Stack Engineer*

02/2011 – 11/2013  
*(Remote) Greenville, Mi, United States*

- Designed and developed a comprehensive Customer Relationship Management (CRM) system and Integrated Management System (IMS) that streamlined client interactions and internal processes.
- Integrated the CRM with HughesNet for near real-time processing, successfully eliminating manual processing and reducing operational delays by 40%.
- Facilitated onboarding and comprehensive training programs for employees and contractors, enhancing team productivity and operational efficiency.
- Collaborated with cross-functional teams to gather requirements, ensuring the final product met user needs and business objectives.

*Tech Stack: PHP, JavaScript, jQuery, MySQL, Memcache*