

# Bikram Tuladhar

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## Professional Summary

Software Engineer and DevOps Engineer with over 7 years of experience in web application development and infrastructure optimization. Proficient in PHP, JavaScript, and Python, specializing in frameworks like Laravel and Vue.js. Demonstrated ability to lead major migrations and upgrades, optimize deployment processes and enhance system performance. Experienced in managing development teams, ensuring code quality, and delivering scalable, high-quality solutions that meet stakeholder expectations.

## EDUCATION

### AIMS International College

Bachelor's Degree in Computer Science

Lalitpur, Nepal

(2019 - 2024)

*Awaiting results*

### Phulchowki College

Higher Education

Lalitpur, Nepal

(2016 - 2018)

### Thapathali Campus

Diploma in Computer Engineering

Kathmandu Nepal

(2009 - 2012)

## SKILLS SUMMARY

- **Programming Languages:** PHP, JavaScript, Python, SQL, Bash
- **Frameworks & Libraries:** Laravel, Vue.js, Nuxt.js, ReactJS, Django, Flask, FastAPI, Express.js, Hono
- **DevOps & Tools:**
  - **CI/CD & Automation:** Git, GitLab, Jenkins, Bitbucket CI/CD, Terraform, Helm
  - **Testing & Quality Assurance:** PHPUnit, JMeter, SonarQube, PHPStan, Snyk, ESLint, Pint, Husky
  - **Containerization & Orchestration:** Docker, Kubernetes
  - **Monitoring & Logging:** Prometheus, Sentry, Inspector
  - **Security:** Tenable Nessus, Nginx ModSecurity, pfSense
  - **Cloud Services:** AWS, Google Cloud Platform, Azure, Oracle Cloud, DigitalOcean
  - **Other Tools:** MinIO, Mailpit, JSReport, Netmaker, Teleport, XtraBackup
- **Databases & Storage:** MySQL, PostgreSQL, Redis
- **Version Control:** Git, GitLab, Bitbucket, Github
- **Web Servers & Networking:** Nginx, Apache, Asterisk (VoIP configurations)

## PROFESSIONAL EXPERIENCE

**Software Engineer / DevOps**

Jobins Co Jp | [LINK](#)

**October 2022 – Present**

### Laravel Mix to Vite Migration & Version Upgrades:

- Led the migration of Laravel Mix to Vite in Laravel 8, backporting Laravel View class methods for compatibility.
- Spearheaded the upgrade from Laravel 8 to 10 and PHP 8 to 8.1, utilizing tools like Rector for seamless codebase transition.
- Managed the introduction of automated linting using Pint and ESLint in local environments (Husky) and Bitbucket CI/CD pipelines.

### Testing, Optimization & Tooling:

- Directed and streamlined PHPUnit testing, contributing over 300 test cases to ensure stability and boost confidence during upgrades.
- Implemented JMeter load testing to identify system bottlenecks, resolving them via caching and dynamic programming techniques.
- Improved Webpack build times by leveraging caching and optimizing the inclusion of only necessary files and folders.
- Executed custom activity tracking on a ReactJS project using native browser features such as sendBeacon.
- Led the implementation of SonarQube for code quality scanning, initiating the resolution of issues identified.

### Team Leadership & Feature Implementation:

- Led a team of 5 developers, assisting with database design, architecture planning, and implementing features like rating systems using moving averages.
- Managed the migration of file-based sessions to Redis via a database intermediary, improving system performance and scalability.
- Introduced PHPStan for static analysis and began refactoring legacy code to reduce technical debt.

### AI & Performance Enhancements:

- Developed an AI-powered bot using OpenAI to automate form-filling for long forms.

### Database & Infrastructure Upgrades:

- Led the database upgrade from MySQL 5.7 to 8, modernizing deprecated SQL functions to ensure compatibility.
- Optimized the overall system through load testing and performance enhancements like caching and database query improvements.

## **DevOps Works**

- Reduced Bitbucket pipeline time by 66%, optimizing frontend compilation and deployment processes
- Integrated Laravel Horizon for queue management, enhancing job processing and monitoring
- Implemented debugging solutions like Inspector and improved system performance through JMeter load testing
- Enhanced system security with tools like Tenable Nessus and Nginx ModSecurity
- Deployed and showcased Netmaker and Teleport for secure remote access and VPN solutions
- Improved system scalability by configuring separate databases for read/write operations
- Automated PHPUnit tests for PR events and integrated PHPStan for improved code quality
- Integrated MinIO as S3-compatible storage for scalable object storage solutions
- Deployed Mailpit to facilitate email testing in development environments
- Configured JSReport for automated PDF generation, streamlining reporting tasks
- Automated MySQL database cloning using XtraBackup and Docker for efficient backup and recovery
- Implemented self-hosted Sentry for issue tracking and reporting, enhancing visibility on code errors
- Set up pfSense for robust firewall management and secure networking
- Managed internal DNS using Technitium DNS for streamlined domain name resolution

**Engineering Manager / DevOps Engineer**  
| YoungInnovations Pvt. Ltd. | [LINK](#)

**December 2017 – June 2023**

## **Laravel & VueJS Development:**

- Developed a Laravel module to facilitate the import and export of translation files using Excel, enabling translators to work more efficiently. Automated the appending of missing translations by searching for translation keys within the codebase and maintaining language files.
- Led and delivered a database application using VueJS and Laravel for the Federation of Nepali Journalists, designed to collect incident data.
- Created dynamic multi-step forms in VueJS using Vue Store for efficient state management.
- Built a dynamic form generator that converts Excel-based table forms into web forms by copy-pasting into a content-editable area, widely adopted by local government websites in Nepal.

## **Legacy Framework & Python Projects:**

- Maintained and enhanced legacy YII framework applications by adding new features, such as reporting with raw SQL and integration with SMS gateways and VoIP services.
- Contributed to a Python-based project (Invenio) by upgrading it to the latest version and importing large volumes of digital books for ICIMOD Nepal.
- Developed features for a VoIP-based project using VueJS and Django, including SMS scheduling, automated voice calls, and advanced Asterisk dial plan configurations.

## **Testing & QA:**

- Authored comprehensive test cases to ensure reliability and functionality for a Django project developed for COVID-19 emergency procurement.

## DevOps Work

- Automated multi-cloud platform deployments for ASP.NET projects, streamlining processes.
  - Managed migration of legacy systems to new cloud providers, minimizing downtime and ensuring operational stability.
  - Migrated GitLab to a Docker environment with automated backups, improving data integrity.
  - Led server migration and dockerization efforts for the Himaldoc system, significantly enhancing performance.
  - Architected cloud infrastructure for MAMAKnowsBest on Google Cloud, ensuring secure, scalable operations.
  - Moved legacy hosting to Kubernetes to save cost more than 50%.
  - Gained experience working on a wide variety of projects using technologies such as Node.js, Django, Laravel, ASP.NET, WordPress, and Drupal.
  - Started as an intern and advanced through multiple roles, ultimately being promoted to Engineering Manager.
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## OPEN SOURCE PROJECTS

- **DNS Record Comparator** | [LINK](#)  
Bash script for comparing DNS configurations across servers to identify discrepancies.
- **Fork All Starred repo** | [LINK](#)  
Script to fork all starred repositories on GitHub and sync upstream changes.
- **Jira daily task extractor** | [LINK](#)  
Tool to log daily tasks from Jira issues automatically.
- **MYSQL Clonner** | [LINK](#)  
Automated MySQL cloning using xtrabackup for fast and efficient backups.
- **Meilisearch server creator** | [LINK](#)  
Script to automate Meilisearch server creation.
- **AWS IP Mover** | [LINK](#)  
Automated tool for migrating IPs between instances in AWS.

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## LANGUAGES

- English
- Hindi
- Nepali