

SURAJ THALANGE

Moodle & LMS Platform Engineer | Plugin Development • LMS to ERP Integration • Production Delivery

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PROFESSIONAL SUMMARY

Moodle platform engineer working full time in Moodle since 2022, across plugin development, theming, customisation, integration and the production infrastructure underneath. Builds plugins to the full Moodle plugin contract rather than to the minimum that works: privacy provider, backup and restore, events, completion, capabilities and an XMLDB upgrade path, with PHPUnit and Behat coverage and CI passing across supported Moodle branches on both MySQL and PostgreSQL. One of his plugins is published on the Moodle Marketplace, a second is in the review queue, and a custom theme is in development. Also owns delivery on client platforms, which means the architecture decisions, the upgrade risk and the 2am production problem all land in the same place.

CORE SKILLS

Moodle Platform Engineering

Moodle 4.5 LTS through 5.2 • Moodle plugin development (activity modules, report plugins, local plugins) • Moodle plugin contract: privacy/GDPR provider, backup and restore, events API, completion API, capabilities, XMLDB schema and upgrade paths • Moodle theming and template customisation • Mustache templates • Moodle Web Services API and external functions • Moodle Plugin CI • Cross-version and cross-database compatibility • Plugin estate management and upgrade triage • Moodle performance tuning

LMS Delivery & Integration

Enterprise LMS implementation • LMS to ERP integration over web services • REST APIs • System integration • Data migration and bulk user onboarding • Multi-institute and multi-organisation rollout • Configuration and customisation • Reporting and certification workflows • Versioned, backward-compatible releases • Production support

Engineering

PHP • MySQL • MariaDB • PostgreSQL • SQL and query optimisation • JavaScript • HTML • CSS • Git • GitHub Actions • PHPUnit • Behat • Automated testing • Code review • Technical documentation • Laravel (working level)

Infrastructure

Linux server administration • AWS (EC2, databases, S3, deployments, backups, scaling) • Microsoft Azure • Apache and virtual host configuration • Daily production deployments • CI pipelines • Production maintenance, monitoring and support

Delivery

Technical project management • Client-facing delivery and requirements discovery • Effort, timeline and budget estimation • Team leadership (approximately 5 to 12) • Agile and Scrum • Jira • BRDs • UAT • Go-live coordination

PROFESSIONAL EXPERIENCE

EncureIT Systems Pvt. Ltd. | Pune, India

Technical Project Manager, Moodle Expert | January 2026 – Present

Moodle Developer | July 2024 – December 2025

- Build and customise Moodle platforms for external clients: plugin development, theming, configuration and third-party integration, on platforms across government and private sector.
- Design and deliver bidirectional **LMS to ERP integration over Moodle web services**, including the transformation layer, partial-sync failure handling and idempotency, so that a failed or repeated call does not corrupt enrolment or completion state.
- Own **architecture and technical decisions** on client platforms, including upgrade compatibility, plugin estate decisions and release sequencing.
- Run implementation and rollout across multiple training institutes: configuration, customisation, bulk data onboarding, reporting dashboards, certification workflows and go-live.
- Build and support Moodle platforms across many LMS projects for government and private sector clients, alongside an integrated ERP platform, across 7+ client accounts.
- Own **Linux server administration, AWS and Azure infrastructure and daily production deployments**, plus performance and scalability work and post-go-live production support.
- Lead delivery across cross-functional teams of approximately **5 to 12**, covering development, QA, UI/UX and infrastructure, and hold requirements, estimation and scope conversations directly with clients and executive stakeholders.

Freelance / Self-Employed | Pune, India

Moodle Developer and Consultant | October 2023 – June 2024

- Delivered complete Moodle implementations for education and corporate clients, running multiple concurrent projects independently from scoping through to go-live.
- Built custom **plugins, themes, reporting modules and REST API integrations** to client specification.
- Tuned Moodle performance and scalability through database, query and server configuration work.
- Advised clients on platform and deployment practice, and managed Linux server deployment, maintenance and production support.

Capgemini | Pune, India

Associate Software Engineer | November 2022 – September 2023

- Developed and maintained enterprise web applications within Agile delivery teams.
- Contributed to sprint planning, code review, unit testing and deployment.

PreDrag System | Pune, India

Moodle Developer | March 2022 – October 2022

Frontend Developer | August 2021 – February 2022

- Customised Moodle platforms, plugins and themes to client specification, and integrated third-party tools and APIs to extend platform capability.
- Implemented custom LMS solutions and integrated databases for data-driven functionality.
- Built responsive interfaces in HTML, CSS and JavaScript with cross-browser compatibility.
- Supported platform deployment, bug tracking and ongoing maintenance.

MOODLE PLUGINS AND OPEN SOURCE

One Life, a Moodle activity module · mod_onelife

Published on the Moodle Marketplace: marketplace.moodle.com/plugins/4140 · github.com/surajthalange/moodle-mod_onelife · PHP · GPLv3 · v1.0.0

- Learner-driven, streak-based revision activity built on the course question bank. The learner selects their own topic scope at play time and one wrong answer ends the run. Deliberately ungraded and kept out of the gradebook as low-stakes practice.
- Implements the **full plugin contract**: GDPR privacy provider, backup and restore step libraries, four event classes, custom completion integration, capabilities, XMLDB schema with an upgrade path, Mustache templates and language files.
- Architecture separates concerns into `classes/local/` (question repository, run manager, stats repository, scope and settings validators) and `classes/output/` with a renderer and dedicated page classes.
- **15 PHPUnit test files**, a Behat acceptance feature with custom step definitions and a test data generator, and **Moodle Plugin CI passing from 4.5 LTS through 5.2 on both MySQL/MariaDB and PostgreSQL**.
- README documents a known limitation honestly, with the technical reason: activity-level backups cannot remap question history. Prior art is credited explicitly.

Transcript, a Moodle report plugin · report_transcript

PHP · in the plugins directory review queue

- Renders a learner's completed courses as a verifiable PDF transcript with a public verification page, so a third party can confirm a credential without needing access to the LMS.

CSV Uploader, a Moodle plugin · github.com/surajthalange/csvuploader · PHP

- Bulk CSV upload, processing and management of Moodle user data, built for administrator-led bulk onboarding.

Custom Moodle theme · in development

- Building a Moodle theme from scratch, covering template overrides, responsive behaviour and a consistent visual system across screens.

SELECTED DELIVERY

Client names withheld under confidentiality. Systems described by domain and scale.

Government training platform, multi-institute rollout

Moodle implementation for a government training institute running officer training programmes at national scale. Owned requirements, build, deployment and production rollout, plus reporting dashboards and certification workflows, and ran the Linux and AWS layer underneath including performance work and a security audit.

Moodle to ERP integration

Bidirectional integration between an enterprise Moodle platform and an enterprise ERP over Moodle web services. The protocol work was the straightforward half. The hard part was deciding which system is the record of truth for which field, and making the sync idempotent so a duplicate or late callback could not leave enrolment and completion state disagreeing with the ERP.

EDUCATION

Master of Computer Applications (MCA), Computer Science, SRM University | December 2022 – June 2024

Bachelor of Science, Computer Science, N.E.S. Science College, Nanded | June 2019 – June 2022