Nikhil Awasthi

Software Engineer · Kathmandu, Nepal

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EXPERIENCE

Associate Software Engineer, Codewing Solutions Aug 2025 – Present

Backend Developer Intern, NCCS Software Dec 2024 – Mar 2025

- Built backend modules for a school management system (EMIS) in Laravel: controllers, Eloquent models, migrations and seeders.
- Structured business logic into service and repository layers, following PSR coding standards.
- Built web and REST API routes secured with Laravel Sanctum token authentication.
- Implemented role-based access control (admin, teacher, student) across student, teacher, class-assignment and document-sharing modules.
- Reviewed code with the team and covered changes with unit tests and documentation.

PROJECTS

Lucky You · Phaser, Python, PyTorch, Laravel github.com/AwasthiNikhil/pcg

Built a procedurally generated 2D platformer with 8 level generators, from cellular automata to a transformer trained on Super Mario Bros levels, behind a solver that guarantees every level is finishable.

XPick · JavaScript, Chrome Extensions, Playwright github.com/AwasthiNikhil/xpick

Shipped a Chrome MV3 extension that generates unique XPath and CSS locators, each verified against the live DOM to match exactly one element, with a tester that highlights every match; tested with Playwright.

Pass & Play · JavaScript, HTML, CSS github.com/AwasthiNikhil/pass-and-play

Created 37 party, arcade and board games for one shared device with split-screen multi-touch play; plain ES modules with no build step, and automated tests that validate every game against a shared contract.

Automated Essay Scoring · PHP, MySQL, Flask, TensorFlow github.com/AwasthiNikhil/Automated-Essay-Scoring

Developed an essay-scoring web app: a PHP and MySQL site with sign-up, admin approval and essay history, backed by a Flask API that scores with an RNN over Word2Vec embeddings plus readability, vocabulary and grammar checks.

SKILLS

Backend: Laravel, NestJS, PHP, Flask, MySQL, PostgreSQL

Frontend: Next.js, React, TypeScript, JavaScript, HTML and CSS

Testing and tools: Playwright, Unit testing, Git, GitHub Actions, Jira, OpenProject, Laragon

EDUCATION

Bachelor of Computer Application (BCA), National College of Computer Studies, Tribhuvan University 2025

HACKATHONS, CERTIFICATIONS AND WORKSHOPS

Quality assurance with Playwright · Workshop May 2025

Automated user flows on Bilibili, the video streaming site.

Parking availability tracker · Hackathon Dec 2024

Led the backend in PHP and MySQL; live availability on a map with OpenStreetMap and Leaflet.

Foundational C# · Microsoft certification Nov 2024

Laravel · Workshop Mar 2024

Built a small file manager to learn routing, controllers and the database layer.

Jira · Workshop Jan 2024