

Aayush Gnawali

✉ aayushgnawali45@gmail.com · 📞 +977-9863486892 · Kathmandu, Nepal
🌐 linkedin.com/in/aayushgnawali · 🐙 github.com/AG-Aayush · 📝 medium.com/@aayushgnawali

PROFESSIONAL SUMMARY

Versatile early-career software engineer with practical internship experience spanning backend development, automated quality assurance, and DevOps technologies. Proficient in engineering clean REST APIs using Python and FastAPI, handling PostgreSQL database integration, and writing robust automation scripts with Selenium and Playwright. Proven capability to support production ERP environments and configure localized cloud/containerized infrastructure.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, HTML/CSS

Backend Development: FastAPI, REST APIs, Async SQLAlchemy, JWT, Pydantic, Authentication, System Architecture

Databases: PostgreSQL, MySQL

DevOps & Infrastructure: Docker, Linux, Git, GitHub, CI/CD pipelines, GitHub Actions, VirtualBox, Secure Coding, SDLC

Testing & Quality Assurance: Selenium, Playwright, Pytest, Postman API Testing

Tools & Frameworks: Streamlit Data Dashboards, VS Code

WORK EXPERIENCE

E-Digital Nepal Pvt. Ltd.

Tinkune, Kathmandu

Backend Developer & QA Intern (Production ERP Team)

June 2026 – Present

- Develop and optimize core RESTful endpoints for enterprise ERP software using FastAPI, leveraging PostgreSQL for structured database lookups and backend reliability.
- Formulate automated web simulation scripts utilizing Selenium and Playwright alongside manual Postman tracking to verify functional bug fixes and minimize regression cycles.
- Coordinate directly with product teams under an Agile framework, applying Git best practices to coordinate branch operations and verify software patches safely.

LegoTech Pvt. Ltd.

Mahalaxmasthan, Lalitpur

DevOps Intern (Remote Academic Learning Internship)

May 2026 – Present

- Conducted hands-on technical research and configuration training across fundamental DevOps tools including Docker containerization, VirtualBox systems, and core Linux environments.
Authored introductory automation shell scripts to explore environment provisioning, service isolation, and automated configuration workflows.
- Gained exposure to standardized CI/CD practices and infrastructure pipeline designs by simulating build validations and continuous integration workflows in isolated staging environments.

PROJECTS

Secure FastAPI CRUD API — FastAPI, Async SQLAlchemy, JWT, PostgreSQL

[Live Demo](#) · [Repository](#)

- Assembled an asynchronous web endpoint infrastructure featuring robust JSON Web Token (JWT) handling, bcrypt password security, and Pydantic validation schemas.
- Structured non-blocking database queries using Async SQLAlchemy architecture to enhance concurrent data handling within PostgreSQL layers.

3D Pomodoro Website — JavaScript, Three.js, GitHub Pages

[Live Demo](#)

- Implemented an interactive client-side timer using Three.js to handle programmatic 3D mesh processing, responsive scene animations, and custom camera lighting rules.
- Deployed the optimized static frontend bundle directly to GitHub Pages ensuring seamless interactive rendering for client devices.

EDUCATION

Everest Engineering College / Pokhara University

Kathmandu, Nepal

Bachelor of Engineering in Information Technology

2022 – Present

Trinity International College

Kathmandu, Nepal

+2 Science (GPA: 3.20)

Completed 2021

ACHIEVEMENTS

- **Best Minor Project Award:** Constructed an IoT-driven Automated Water Tank Monitoring and Smart Lighting System utilizing ESP8266 modules mapped directly to an online data management interface.
- **Chief Content Writer (Hult Prize 2025):** Strategized content layout execution for regional engagement campaigns, placing the organizational committee within the Top 25% bracket across South Asia out of nearly 300 active committees.