

Animesh Nepal

+977-9840599824

aneemes1@gmail.com

[LinkedIn](#)

BACKEND ENGINEER

Detail-oriented and analytically adept, I am an IT professional with a year of experience as a Backend Engineer. Known for exceptional analytical skills and a commitment to thorough independent research, I've received commendations for effective communication and social skills. As a Backend Engineer, I've contributed to various projects, including architecting large scale backend systems, enhancing existing backend and APIs for multiple web application. I've also worked on multilingual web applications, enhancing user personalization and security measures. My multifaceted skill set and proven track record make me a valuable asset in any professional setting.

KEY COMPETENCIES

Python, Django, FastAPI, Django Rest Framework, Wagtail, PostgreSQL, Docker, ElasticSearch, Celery, Streamlit

PROFESSIONAL EXPERIENCE

Open Learning Exchange Nepal

Backend Engineer

Apr 2023 - Present

- Architected and built scalable backend systems for LMS supporting thousands of users, enabling seamless online and offline experiences.
- Integrated ML model into offline packaged MCP software to enable content-aware indexing and improve searchability.
- Reduced search latency and improved user experience by integrating Elasticsearch and optimizing queries.
- Enhanced system performance by offloading intensive workflows to Celery, significantly reducing wait times.
- Developed multilingual support, making the platform globally accessible and inclusive.
- Implemented real-time user tracking and monitoring systems to provide actionable insights for administrators.
- Created dynamic dashboards using Streamlit, Plotly, and GeoIP to visualize usage patterns and business KPIs.
- Upgraded core technologies into newer versions (Python, Django, PostgreSQL), ensuring better stability and maintainability.
- Set up centralized logging and monitoring using the ELK stack, improving issue detection and system observability.
- Improved security posture by applying OWASP best practices, strengthening protection of user data.
- Mentored junior developers and interns, offering structured guidance, code reviews, and onboarding support.
- Contributed to technical planning and decision-making, influencing architecture and long-term product direction.

Backend Engineer Intern

Jan 2023 - Mar 2023

- Built a secure multi-user authentication system with role-based access control and custom dashboards for each user type.
- Reduced load time on admin side by 60% optimizing database queries and joins.
- Improved accessibility by implementing WCAG 2.0 compliance, enhancing usability for visually impaired and differently-abled users.

PROJECTS

Pustakalaya - pustakalaya.org

- Migrated legacy system to a modern architecture with improved scalability and maintainability.
- Led complete system redesign and implementation, from initial design to deployment.

Seepalaya - seepalaya.olenepal.org

- Architected and developed a learning management system supporting both online and offline environments.
- Ensured robust synchronization and content accessibility in bandwidth-constrained settings.

OLENepal Website - olenepal.org

- Designed and implemented a CMS backend with role-based access control.
- Streamlined content management workflows for non-technical users.

Epaath - epaath.olenepal.org

- Organized, cleaned, and indexed educational content to enhance discoverability and structure.
- Improved content searchability through metadata enrichment and consistent formatting.

EDUCATION

Bachelor in Computer Science

Coventry University
2019 - 2022

REFERENCES

Open Learning Exchange Nepal

Bishal Pokharel - Lead Software Developer
bishalpokharel79@gmail.com