

# Aayush Dahal

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## PROFESSIONAL SUMMARY

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Python Backend Developer with hands-on experience building production-grade REST APIs using FastAPI and PostgreSQL. Delivered AI-driven backend systems for resume screening and interview preparation by integrating NLP models, authentication, and third-party APIs. Strong foundation in async Python, API performance optimization, and scalable backend architecture.

## EDUCATION

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### Tribhuwan University

*Bachelor of Science in Computer Science and Information Technology*

Kathmandu, Nepal

April 2022 – Present

## EXPERIENCE

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### CurioTech Private Limited

*Python Backend Developer Intern*

Kathmandu, Nepal

Jan, 2026 – April 2026

- Developed and maintained backend APIs using FastAPI and PostgreSQL for real-world applications.
- Worked on web scraping solutions using BeautifulSoup, Requests, and Selenium to extract structured data.
- Learned and implemented WordPress for building and managing business websites.
- Collaborated with frontend and design teams to deliver complete web solutions.
- Improved API performance and handled data processing tasks efficiently.
- **Internship Certificate:** [View Certificate](#)

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java

**Backend Frameworks:** FastAPI, Django

**Databases:** PostgreSQL, MySQL

**Web Scraping:** BeautifulSoup, Requests, Selenium

**CMS:** WordPress

**Tools & Platforms:** Git, GitHub, Postman, Supabase, NeonDB, Docker

## PROJECTS

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### Inventory Management BaaS

*Django REST Framework, PostgreSQL, JWT Authentication*

- Developed a multi-tenant inventory management backend enabling multiple organizations to manage products and inventory with strict tenant-level data isolation.
- Implemented product catalog management, inventory tracking, stock adjustments, and inventory audit trails through Stock-Movement records.
- Designed role-based access control with JWT authentication for administrators and staff users.
- Applied service-layer architecture, custom permissions, pagination, filtering, soft deletion, and comprehensive API testing to improve maintainability and scalability.

### AI-Powered Resume Screening System

*FastAPI, PostgreSQL, MinIO, TF-IDF, Word2Vec, SBERT*

- Developed the backend for an AI-powered recruitment platform supporting job posting, applicant tracking, resume parsing, and candidate evaluation workflows.
- Built RESTful APIs using FastAPI and PostgreSQL with JWT authentication, role-based access control, and file upload management.
- Implemented NLP-based resume matching using TF-IDF, custom Word2Vec embeddings, SBERT, and cosine similarity to rank candidates against job requirements.
- Integrated MinIO object storage and automated PDF/DOCX resume processing to extract and analyze candidate information.
- Designed scalable database schemas and ranking pipelines to support intelligent recruiter recommendations and application management.

## Storage Quota Management Service (Internship Project)

*FastAPI, SQLAlchemy, SQLite/PostgreSQL, Pytest*

- Developed a production-ready backend service to manage per-user storage quotas and file metadata for an educational platform.
- Implemented quota enforcement with transactional updates and row-level locking to prevent concurrent uploads from exceeding allocated storage limits.
- Designed a pluggable storage architecture supporting future integration with AWS S3, MinIO, and other object storage providers.
- Built storage reconciliation endpoints to recalculate usage and repair quota counters from persisted file records.
- Created 19 integration tests covering client management, file operations, quota validation, storage recovery, and API health monitoring.

## PrepSmart.ai

*FastAPI, Supabase, Google Gemini API*

[Live Site](#)

- Developed backend APIs for an AI-driven interview preparation platform.
- Integrated Supabase authentication and database services.
- Built an AI chatbot using Gemini API for interview preparation.

## CERTIFICATIONS & TRAINING

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**Introduction to Linux (LFS101)** — The Linux Foundation

[View Verified Badge](#)

**WordPress Certification** — (Coursera)

[View Certificate](#)