

Ayub Shrestha

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Summary

- Full Stack / Backend Python Developer with hands-on experience building scalable REST APIs, authentication systems, and database architectures using Python, Django, React, and Next.js. Proven track record in professional environments (GuruInfosys, KitabYatra) delivering full-lifecycle web applications, optimizing API performance, and integrating real-time backends.

Education

Bachelor in computer application (BCA) | 2020-2026 | Danfe college

- Major: Software Development | Minor: Management and Business Studies, Mathematics and Statistics.
- Core Coursework: Object-Oriented Programming (Java, C#), C, Web Technology (HTML/CSS/JavaScript), Data Structures & Algorithms, Database Systems.

High school (+2 NEB) | 2018-2020 | Khwopa Secondary School

- Major: Computer Science | Minor: Mathematics and Statistics, Business Mathematics, Accountancy.
- Core Coursework: Programming Fundamentals, Database Concepts, Computer Systems Architecture.

Skills & Abilities

Technical Skills

- OOP, HTML, CSS, JavaScript, jQuery, Python, Django, Django REST Framework, FastAPI, React, Next.js, SQL Alchemy, Alembic, Celery, Redis, Docker, MySQL, PostgreSQL, GitHub.

Soft Skills

- Problem Solving, Time Management and Adaptability.

Experience

Junior Python & Django Developer | GuruInfosys.

(May 2025 – Jan 2026)

- Enterprise Application Development: Engineered end-to-end web applications and internal tools, including a comprehensive Loan Management System (CRM) to streamline loan processing, user workflows, and financial tracking.
- Automated Document Processing: Built Python utility scripts and background tasks to parse, extract, and convert structured data from Excel and Word documents into relational database records.
- Database Optimization & Security: Designed relational database schemas (PostgreSQL/MySQL), optimized Django ORM queries, and implemented JWT-based authentication with role-based access control (RBAC).

- Agile & Team Collaboration: Collaborated with cross-functional teams to deliver production features on schedule while actively conducting code reviews for clean codebase maintainability.

Junior Python & Django Intern | KitabYatra.

(Feb 2025 – May 2025)

- API Architecture & Backend Core: Focused primarily on designing, building, and maintaining core RESTful APIs using Django REST Framework (DRF).
- Authentication & Security: Implemented secure JWT-based authentication mechanisms for frontend-to-backend communication.
- Data Modeling: Utilized Django ORM to model database structures, execute migrations, and build custom database queries.

Projects

Brand Connect: Business Management System | Python, Django, Next.js, Docker, Celery, Redis, Post

- Built a modular business management platform supporting multi-vertical operations including inventory, sales, staff, business management, and role-based access control.
- Developed REST APIs with Django REST Framework, asynchronous background processing with Celery and Redis, and a Next.js frontend containerized with Docker.
- Link: <https://uat.colthinkspace.com/login>

Bill Buddy: Expense Splitter | Next.js, Tailwind CSS, Convex

- Engineered a full-stack expense web app using Convex for real-time backend database synchronization across multi-user groups.
- Developed automated expense allocation algorithms to accurately calculate individual shares, track pending balances, and simplify debt settlements. GitHub: <https://github.com/ayubsht1/bill-buddy.git>

Physio Desk: Physiotherapy Clinic Management System | Python, FastAPI, Alembic, SQLAlchemy, SQLite

- Developed a full-stack clinic management system with patient and therapist management, appointment scheduling, billing, JWT authentication, role-based access control, and a public patient appointment portal. Link: <https://physio-desk-1.onrender.com/>

Certifications

Python and Django Training

Broadway Infosys Pvt. Ltd., Kathmandu July - Oct 2024 - Certificate No. : B20609

Advanced React

Meta Certificate from Coursera, Aug 2026 – Certificate No.: HQ8619105N8E

Office Package

Neo Fusion School Of Computer, Bhaktapur April – Oct 2018 – Certificate No. : 2501