

# Sachin Acharya

Kapan, Kathmandu

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## Experience

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### Software Engineer

September 2024 - Present

[SB Solutions Pvt. Ltd.](#)

Kathmandu

- Designed, developed and optimized scalable backend solutions using Python frameworks including Flask and Django to meet business and operational requirements.
- Vendor Management System:
  - Developed a robust backend infrastructure using Django for streamlining vendor operations, including user management, inventory tracking, and real-time reporting.
  - Implemented a role-based access control and RESTful APIs to enhance security and interoperability with external systems.
- Compressor Service:
  - Created a high-performance Flask-based API for compressing PDF, video, and image files, significantly reducing file sizes while maintaining quality.
  - Leveraged tools like Ghostscript for PDF compression and OpenCV for image optimization.
- Bank and Share Statement Analyzer:
  - Designed a Flask application to parse and analyze financial document, improving data accessibility and visualization.
  - Utilized Tesseract OCR to extract data from scanned documents, enabling seamless handling of unstructured financial data.
  - Utilized data extraction libraries for efficient processing of complex financial data.
- Adopted modern software engineering practices, including Git-based version control, unit testing, continuous integration (CI/CD pipelines), and containerization with Docker for streamlined development and deployment.

### Django Developer

January 2025 - Present

Fiftech Zone Pvt. Ltd. (Part-Time)

Kathmandu

- Previz
  - **Django Integration:** Integrated caching mechanisms, email services, and token validation middleware in Django, enhancing application scalability and maintainability.
  - **Automation:** Developed management commands and setup scripts for automating data loading, secret key generation, and dependency management, streamlining deployment and workflows.

## Education

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Tribhuvan University

April 2021 - April 2025

Bachelors of Science in Computer Science and Information Technology

Kathmandu, Nepal

## Projects

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### Room Finder (Django, React)

- Developed an ecommerce room rent management system.
- Implemented effective room posting, booking and searching system with optimized queries.

### Chat Server (TypeScript, Node)

- Developed a chat system using SocketIO.
- Seamless transfer of messages, conversation creation and effective storage and retrieval.

### Data collection web application (Flask, PostgreSQL)

- Created a web application to collect user data with a customizable confirmation email feature.
- Developed using Flask for the backend, PostgreSQL for data storage, and integrated email services for user interaction

### Blood bank management system (Django)

- Designed a comprehensive system for managing blood bank operations.
- Utilized Django to create a multi-user interface with separate panels for admins, donors, and patients.

## Technical Skills

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**Programming Languages:** Python, JavaScript, TypeScript, SQL, C, C++

**Frameworks & Libraries:** Django, Flask, React, Node.js, TensorFlow, PyTorch, OpenCV

**Database Technologies:** PostgreSQL, MongoDB, MySQL, Redis

**DevOps & Cloud:** Docker, Git, GitLab, CI/CD, AWS (S3, EC2, Lambda), Ubuntu

**Security:** OAuth, JWT, Role-based Access Control, Data Encryption

**Performance:** Load Balancing, Caching, Asynchronous Processing, Database Optimization

**Methodologies:** Agile Development, Object-Oriented Programming, RESTful API Design

## Leadership / Extracurricular

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### TechTrix Nepal

**2022-2023**

#### Organizer

*New Summit College*

- Organized various pre-events such as training for mobile development, python, blood donation program.
- Lead the main event consisting of Hackathon, Quiz Competition, Project Demonstration, and various games.
- Had over 200+ participants and involved more than 25 colleges.

LinkedIn: <https://www.linkedin.com/in/acharya-sachin/>

GitHub: <https://github.com/sachiin-acharya>