

# Er.Sandip Subedi

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## Professional Summary

**Full Stack Developer** building scalable web applications and enterprise solutions. Proficient in **React, Next.js, ASP.NET Core, Node.js, Python, and Machine Learning**. Skilled in **SQL, Database Design, REST API development, database optimization and Agile methodologies**. Recognized for strong problemsolving, clean architecture, and performance-driven solutions.

## Experience

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### Sarvanam Software Pvt.Ltd. – Kathmandu-Naxal, Nepal

#### **Full Stack Developer | Jul 2024 – Present**

- Migrated legacy **ASP.NET Web Forms** to **React/TypeScript & ASP.Net Core Web Api**, improving maintainability and UI/UX.
- Developed **Human Resource Management** Module to integrate in the PMS.
- Developed **RESTful APIs** handling 10,000+ daily requests with **99.9% uptime**.
- Optimized **SQL queries**, reducing execution time by **40%**.
- Integrated Redis caching and third-party APIs to enhance performance.
- Authored **structured documentation** for the **HMS** for stakeholders and future maintainers.

#### **Intern Full Stack Developer | May 2024 – Jul 2024**

- Enhanced the **HMS system** by fixing bugs and optimizing performance.
- Implemented **Json web token(jwt) and Oauth2.0** for securing the Web Api and pages.
- Worked with **Entity Framework & Dapper ORM** for database operations.
- Implemented **clean architecture principles** in backend development.
- Wrote optimized **SQL procedures** and monitored system performance.

## Technical Skills

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- **Frontend:** React.js, Next.js, JavaScript, TypeScript, jQuery, Redux, Zustand, Material UI, ShadCN, HTML5, CSS3
- **Backend:** ASP.NET Core, Node.js, Express.js
- **Databases:** PostgreSQL, MySQL, MongoDB
- **AI/ML:** TensorFlow, Keras, OpenCV, NumPy
- **DevOps & Tools:** Git, GitHub Actions, Docker, Redis, REST APIs, Clean Architecture
- **Methodologies:** Agile Scrum, Security Best Practices, Performance Optimization

# Projects

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## Human Resource Management (HR) Module

### Backend (API)

- ASP.NET Core 8 Web API (C#)
- Dapper ORM
- SQL Server/MySQL
- Swagger (OpenAPI) + Versioning
- Serilog (structured logging)

### Frontend (Web)

- React 18 + TypeScript
- Next.js
- React Hook Form + Yup (forms + validation)
- UI: Material UI
- Zustand (lightweight global store) for auth/session

## Real-Time Age & Gender Detection (*Computer Vision*)

- Built with TensorFlow/OpenCV, achieving 92% accuracy.
- Developed a React interface with real-time video processing (150ms inference).

## Face Recognition Attendance System (*Computer Vision*)

- Designed with TensorFlow, Keras, OpenCV, achieving 85% accuracy.
- Built GUI with Tkinter, automated attendance management.

## E-Commerce Platform (*Full Stack Solution*)

- Developed with MERN stack, handling 500+ products.
- Implemented JWT authentication for secure access.

## Advantours Tourism Portal (*Booking System*)

- Developed trip booking & management system with API integrations.
- Reduced booking processing time by 25% through optimized workflows.

# Education

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## Bachelor of Engineering in Information Technology

Cosmos College of Management & Technology, Lalitpur | 2019 – 2024

- GPA: 3.57/4.0

## Certification & Training

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- MERN Stack Certification – Broadway Infosys (2023)
- Hands-on training in full-stack development with Prisma ORM

## Achievements

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- Improved enterprise application performance by **60%** through code optimization
- Mentored **3 intern developers** on React best practices