

# ADARSH SINHA

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## OVERVIEW

Software Developer specializing in Backend Engineering and AI solutions, with a strong foundation in building scalable, efficient, and reliable systems. Proficient in developing and deploying robust backend services, designing APIs, managing databases, and integrating machine learning models into production environments. Experienced in collaborating with cross-functional teams to deliver high-impact software solutions across industries.

## EXPERIENCE

### Software Engineer

*goML, India*

Mar 2026 – Present

- **Developing** backend systems and AI-driven applications focused on scalable production deployment.
- **Building** APIs and services for machine learning workflows, model integration, and automation.
- **Collaborating** with cross-functional teams to design reliable and efficient software solutions.
- **Improving** system performance, maintainability, and deployment processes across environments.

### SDE 2

*Vakeel AI, India*

May 2025 – Feb 2026

- **Developed** scalable RESTful APIs and backend systems for high-throughput legal tech apps.
- **Managed** virtualized infrastructure using **Proxmox** and **LXC containers**.
- **Built** containerized services with **Docker** for reliable dev-to-prod environments.
- **Implemented** load balancing for high availability and traffic resilience.
- **Orchestrated** cloud infrastructure with CI/CD and infrastructure-as-code practices.
- **Collaborated** across teams to align backend systems with cloud-native and AI workflows.

### Data Engineer

*CertifyOS, New York, USA*

Dec 2024 - Apr 2025

- **Developed** and maintained automated backend data workflows and ETL pipelines using Python and Apache Airflow, supporting scalable ingestion, transformation, and delivery processes.
- **Integrated** multiple APIs and data sources into unified backend architectures, ensuring seamless access and system consistency across platforms.
- **Explored** cloud-native backend solutions to improve pipeline scalability and adaptability for future deployments, leveraging **Google Cloud Platform (GCP)** and **Vertex AI** for experimentation and model integration.

### Associate Software Engineer

*Proeffico Solutions, Noida*

Aug 2023 - Nov 2024

- **Spearheaded** the development of backend systems integrated with ML services, collaborating with cross-functional teams to deliver production-grade software solutions.
- **Designed** and implemented DocGPT for NLP-based bulk data analysis, focusing on privacy-aware text summarization and entity extraction.
- **Provided** technical mentorship to junior developers on backend architectures, APIs, and efficient coding practices including **JWT token-based authentication** and **Agile methodologies**.
- **Implemented and maintained CI/CD pipelines** using tools like Jenkins and GitHub Actions for reliable backend deployments.

### Software Developer Fullstack Intern

*TechLadd, Pune*

Jan 2023 - July 2023

- **Developed** scalable backend APIs using Django REST Framework and frontend systems with React.
- **Implemented** RESTful APIs ensuring robust client-server interactions.
- **Enhanced** backend performance through rigorous testing, profiling, and optimization.
- **Collaborated** with design teams to

## EDUCATION

### B.E. in Computer Engineering

*Thapar Institute of Engineering and Technology, Punjab, India*

2020 - 2023

- Specialized in Artificial Intelligence and Data Engineering, with strong exposure to backend development, cloud computing, and scalable system design.
- Completed projects on AI-driven medical image analysis, predictive modeling, and large-scale data processing.
- Learned foundational principles of backend development, machine learning, and database management.
- Participated in research, contributing to peer-reviewed publications.

### Diploma in Computer Engineering

*Sri Sairam Polytechnic College, Tamil Nadu, India*

2017 - 2020

- Gained strong foundational knowledge in programming, algorithms, backend development, and database systems.

## SKILLS

- **Languages:** Python, JavaScript, SQL
- **Frameworks:** Django, Flask, FastAPI
- **Backend Development:** REST APIs, JWT Tokens, Microservices, System Design
- **ML & AI:** TensorFlow, Keras, PyTorch, Scikit-Learn, NLP, Generative AI, LLMs, GCP Vertex AI
- **Data Analysis:** Pandas, NumPy, Matplotlib, Seaborn, PySpark
- **DevOps:** Docker, Jenkins, CI/CD Pipelines (implemented and maintained in production)
- **Cloud & Hosting:** AWS, Google Cloud (GCP), Cloud Functions
- **Databases:** MySQL, PostgreSQL, MongoDB, Database Optimization
- **Tools:** Git, GitHub, Jupyter, VS Code, Apache Airflow, Hadoop
- **Methodologies:** Agile

## PROJECTS

### • Eeveon — Developer-First CI/CD Library ([EEveon.com](#) - [PyPi Library](#))

A lightweight, proprietary-grade deployment system designed for developers who want complete control over their infrastructure. Eliminates vendor lock-in and avoids complex, error-prone YAML configurations, enabling fast, predictable deployments with minimal overhead. Built to prioritize performance, reliability, and flexibility across development and production environments.

### • Medical Image Fusion Using Improved Dual-Channel PCNN ([Published Research Project](#))

Developed a medical image fusion pipeline in the NSST domain using an Improved Dual-Channel Pulse-Coupled Neural Network (IDPCNN). Fused grayscale and pseudo-color images using Prewitt-based edge extraction and Maximum Regional Energy (MRE), evaluated on 28 image pairs against 11 baseline methods using 9 objective metrics, achieving strong qualitative and quantitative results.

*Published in Springer Nature —*

### • Generative AI Chatbot Backend

Built a scalable backend service for a conversational AI system using Meta LLaMA models, optimized for low-latency inference and production deployment.

### • Pose Detection System

Developed real-time human pose detection pipelines using TensorFlow with backend inference APIs for live processing.

### • OCR API Service

Designed and deployed an OCR backend API using EasyOCR for efficient document digitization and text extraction.

## CERTIFICATIONS

- Data Structures in Python (Coding Ninjas, 2023)
- STEM Connect (Deloitte, 2023)
- Transformer-Based NLP Applications (NVIDIA, 2023)
- AI on Jetson Nano (NVIDIA, 2023)
- Data Foundations (Google, 2023)
- Full Stack Web Development (Udemy, 2023)