

EDUCATION

Chandigarh University, Punjab, India

2021 - 2025

- Bachelor of Engineering (B.E.) in Computer Science with Specialization in Big Data Analytics

EXPERIENCE

Software Developer

08/2025 - Present

iPredict Data Labs Pvt. Ltd. | Aalgorix

Noida

- Designed and deployed backend and AI-driven services for a production edtech platform, integrating LLMs and ML models for content analysis, personalization, and recommendation systems using **vector embeddings** and **RAG**, serving **8,900+ concurrent users**.
- Architected and operated cloud-native infrastructure on **AWS using Docker and Kubernetes**, ensuring **96.7% uptime**, high availability, and horizontal scalability under peak loads.
- Optimized PostgreSQL schemas and **CI/CD pipelines**, reducing deployment time by **60%** and doubling release frequency across the backend stack.

Software Developer Intern

09/2023 - 10/2023

Bhaskaracharya National Institute for Space Applications and Geo-Informatics (BISAG-N)

New-Delhi

- Engineered high-performance web applications utilizing **Spring Boot** and **MVC frameworks**, leading to improved load times by 30% and enhancing user experience for over 2,000 daily active users.
- Coordinated efforts among cross-functional groups to **optimize database queries**, resulting in a reduction of query execution time by over two minutes per transaction on critical processes within the web applications.

TECHNICAL COMPETENCIES

- Languages:** Python, C/C++, Java, JavaScript, HTML, CSS
- Backend & APIs:** Node.js, Express.js, REST APIs, Microservices
- Databases & Data Systems:** PostgreSQL, MongoDB, SQL, Vector Databases
- AI & ML:** Machine Learning, NLP, LLMs, RAG, Vector Embeddings
- Cloud & DevOps:** AWS, Docker, Kubernetes, VPS, CI/CD, Git, GitHub
- Frameworks & Libraries:** Spring Boot, Node.js, React, Three.js

PROJECTS

Resume Analyzer | Generative AI & NLP

[Project Link](#)

- Built a **Generative AI-powered resume analysis platform** that parses resumes, evaluates ATS compatibility, and generates recruiter-style, role-specific improvement suggestions using NLP and LLMs.
- Implemented **resume-to-job matching using vector embeddings and Retrieval-Augmented Generation (RAG)**, enabling accurate skill-gap analysis and context-aware feedback.

Real Time Object Detection | TensorFlow, Deep Learning, Python

[Project Link](#)

- Achieved an object detection accuracy of **over 85%** on the COCO dataset while processing video frames at a speed of **30 frames per second** using TensorFlow's optimized models.
- Successfully deployed the model on a cloud platform, enabling real-time detection for up to **10 concurrent video streams**, with a processing latency of less than **100 milliseconds** per frame.

Sahand Estate | React, Redux, Node.js, Express and MongoDB

[Project Link](#)

- Developed a full-stack real estate application using the **MERN** technology suite that enhanced property listing management; reduced update time on new rentals by an average of two hours each day.
- Engineered a comprehensive **CRUD** functionality for property listings, enabling seamless updates, image uploads, and effective management through user profiles.

Real-Time Bus Fare Tracking & Alert System | Python, FastAPI

[Project Link](#)

- Developed a **Python/FastAPI backend** for real-time bus fare monitoring with price-drop detection, background scheduling, and live user notifications.