

Lovepreet Kumar

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Jalandhar, Punjab, India

Education

Dr. B. R. Ambedkar National Institute of Technology (NIT Jalandhar)	2020 – 2024
Bachelor of Technology in Computer Science and Engineering	CGPA: 7.14
Govt. Sr. Sec. School, Bhargav Nagar, Jalandhar	2019 – 2020
Class XII (Punjab School Education Board)	Marks: 94%
Sharma Model School, Jalandhar	2017 – 2018
Class X (Punjab School Education Board)	Marks: 81%

Experience

Software Development Engineer @ Amazon, Gurugram, India · On-site Sep 2024 – Jan 2026

Java · Spring Boot · AWS · Python · TypeScript · Mockito · JUnit · Git · DynamoDB

- Led an end-to-end revamp of post-delivery customer email experience, improving **service ownership and scalability**. Added delivery feedback entry points to **increase customer engagement** and built backend services and deployment pipelines for phased regional rollout.
- Designed and implemented an end-to-end system to **prevent delivery feedback for rejected or returned orders**, ensuring **accurate, context-aware customer communication**.
- Expanded delivery-speed filtering features to **new international regions** and introduced contextual UI hints to improve **delivery-speed perception** through seamless cross-service integration.
- Implemented robust authorization mechanisms to ensure **only verified customers could submit feedback**, significantly improving **data integrity and access control**.
- Enabled **multi-bot, two-way customer messaging** for delivery interactions and reattempt workflows, ensuring **seamless conversational handoffs**.

Software Developer Intern @ ZENTRI AI Pvt. Ltd., Remote

Jul 2024 – Sep 2024

Python · ReactJS · FastAPI · MongoDB · AWS · LLM Frameworks

- Developed Python-based automation to bulk ingest and manage documents, improving **document processing efficiency by 60%**.
- Built and deployed the **initial UI** for an AI-powered web application using React, collaborating closely with backend services.
- Integrated LLM orchestration frameworks to enable **knowledge-based querying** over indexed documents for scalable information retrieval.

Software Development Engineer Intern @ Amazon, Hyderabad, India · On-site

May 2023 – Jul 2023

Java · Spring Boot · AWS · Mockito · JUnit · TypeScript · Git

- Delivered **production-ready backend features** supporting large-scale operational workflows within a fast-paced internship timeline.
- Authored multiple low-level design documents, **accelerating development and reducing iteration cycles**.
- Improved launch and deployment workflows, increasing **system reliability and rollout efficiency**.

Projects

AI-Based Mock Interviewer

[Live] [Code]

ReactJS · Face API · DeepGram API · ChatGPT-3.5 · Speech Synthesis · Firebase

- Developed a real-time AI interviewer web app with face expression and tone analysis.

Road Accident Detection System

[Live] [Code]

ReactJS · FastAPI · OpenCV · TensorFlow · Firebase

- Built ML-powered video processing system to detect road accidents and email incident clips to emergency contacts.

Art Selling Pal

[Live] [Code]

ReactJS · ExpressJS · MongoDB · Cloudinary · Render

- Designed and implemented an art marketplace for users to buy/sell digital artworks with dummy currency.

Technical Skills

Languages: Java, Python, C++, C

Backend: Spring Boot, FastAPI, Django, Flask, Node.js

Frontend: ReactJS, JavaScript, HTML, CSS, Firebase

Databases: DynamoDB, PostgreSQL, MySQL, MongoDB

Cloud & Tools: AWS, Git, Unit Testing, OOP, OS