

## SUMMARY

Backend Engineer with 3.5+ years of experience in performance-critical backend components, ML-integrated pipelines, large-scale system migrations. Proficient in Java, C/C++, and low & high-level design.

## SKILLS

- **Languages:** Java, C, C++, Python, SQL
- **Tools & Frameworks:** Git, Maven, JUnit, AWS, Docker, Spring, Postman, OSGi, JIRA, Confluence
- **Core Competencies:** Algorithm & Feature Development & Refinement, REST APIs, Debugging, LLD, HLD, Caching

## EXPERIENCE

- **Adobe** Jan 2024 - Present  
*Member of Technical Staff - 2 (SDE - 2)* Noida, Uttar Pradesh
  - Led the development of **5 new features** such as Modern font processing, Alpha Mask application, flattening, PDF/A workflow, Image Decoding, etc. by **exposing function APIs & designing modular interfaces**.
  - Worked on improving **OCR** for **Retype workflow** for Illustrator, worked on Modular **SLM** based pipeline for PDF ops.
  - Conducted **peer reviews**, **mentored juniors**, **led architectural discussions**, & **ensured cross-functional delivery** in tight timelines.
- *Member of Technical Staff - 1 (SDE - 1)* Jun 2022 - Jan 2024
  - **Migrated & redesigned 200K+ LOC of legacy code from C/C++ to Java**, re-imagining LLD of multiple components, resolved cross-language discrepancies & **improved maintainability & stability**.
  - Resolved **80+ production-level** bugs & blocker issues across core libraries (C/C++/Java), **impacting parsing, conversion, rendering, text extraction**, imaging, used by all **flagship products** like Photoshop, Acrobat, etc.
  - Achieved **significant performance improvements** in document parsing (**30x speedup**) via caching & algorithmic enhancements, from **1500ms to 50ms**.
- **Accenture** May 2021 - Jul 2021  
*Data Engineering Intern* Bangalore, Karnataka
  - Worked on NLP: Topic Modelling (**LDA, LSA**) & Topic Classification.
  - Worked with Cloud Data Warehouse for data pipelines **Snowflake, AWS S3**.

## PROJECTS

- **LLM-based code helper (Jun 2024):**
  - Built a Slack-integrated chatbot using RAG architecture, indexing internal knowledge bases.
  - Evaluated multiple local LLMs; deployed Mistral for optimal performance & sensitivity.
- **Task Manager Microservice (Sep 2023):**
  - Built a Spring Boot-based microservice to manage user tasks with full CRUD support.
  - Designed REST APIs (Controller, Service, Repository layers), integrated with H2 DB using Spring Data JPA, & tested endpoints using Postman.

## EDUCATION

- **National Institute of Technology (NIT), Hamirpur** July. 2018 – May. 2022  
*B.Tech in Computer Science; CGPA: 9.07* Hamirpur, Himachal Pradesh
- **CBSE Matriculation & Intermediate/+2** 2016 – 2018
- *CBSE Intermediate/+2; Overall Percentage: 95%* JCB Sr. Sec School, Shimla, H.P.

## ACHIEVEMENTS & HONOURS

- **Adobe Spot Award:** Awarded Spot Award for overall exceptional performance. (2024)
- **Adobe Hackathon:** Secured 2nd place out of 40 participants, for tuning a LLM chatbot, for resolving internal queries. (2024)
- **Adobe Best C++ Project:** Awarded best C++ project after training cohort for freshers. (2022)
- **Flippr ML Hackathon 6.0:** Won All-India Machine Learning Hackathon as a team. (2020)
- **SJVN Merit Scholarship:** Awarded scholarship for exceptional academics, for 4 years. (2018 – 2022)
- **CBSE Certificate of Merit in Physics: Top 0.1%** of all candidates in India amongst **1.1m** candidates (2018)