

# Anand Aggarwal



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## 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

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

## 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

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|---|----------------------------------|
| • <b>National Institute of Technology (NIT), Hamirpur</b> | July. 2018 – May. 2022           |
| • <i>B.Tech in Computer Science; CGPA: 9.07</i>           | Hamirpur, Himachal Pradesh       |
| • <b>CBSE Matriculation &amp; Intermediate/+2</b>         | 2016 – 2018                      |
| • <i>CBSE Intermediate/+2; Overall Percentage: 95%</i>    | 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)