

# Anmol Kumar

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## PROFILE

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Software Engineer with 4+ years spanning backend development and AI engineering, with a track record of shipping AI systems that moved the needle for enterprise products serving Fortune 500 mainframe customers. Proficient in Python, FastAPI, Angular and agentic orchestration. Experienced in agile environments, participating in code reviews, sprint planning, and delivering features across distributed teams.

## WORK EXPERIENCE

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### BMC Software

Jul 2022 - Apr 2026

#### Associate Product Developer

- Architected a reusable RAG framework in Python with confidence scoring, hallucination detection, and intelligent context management-adopted across 4+ product teams, reducing time-to-build for new AI POCs from ~3 weeks to under 5 days and establishing the standard pattern for retrieval-augmented features across the org.
- Designed and integrated Multi-Agent AI systems with Tool-Calling and real-time data integration into existing enterprise web platforms, automating root-cause analysis workflows that previously required 2-4 hours of SME effort per incident and cutting investigation time by an estimated 60-70%.
- Shipped AI-driven analytics POC's leveraging real-time data streams from mainframe products (IMS, Db2, z/OS) using Python and agile sprint processes to deliver predictive insights-directly influenced 3 product roadmap decisions and contributed to work recognized with the BMC IMS Impact Makers Award (Q1 FY26).
- Built conversational AI copilots with live enterprise data retrieval, version-controlled with Git, reducing manual dashboard navigation for support engineers and enabling natural-language access to system observability data across IMS and database performance products.
- Fine-tuned (SFT) lightweight transformer models on limited hardware to prove out on-prem AI feasibility for air-gapped mainframe environments-demonstrated that sub-3B parameter models could handle domain-specific tasks at a fraction of the inference cost of frontier models.
- Authored internal research on agentic AI and RAG architectures that drove broader adoption across teams working on mainframe systems, IMS, and database performance analytics-established foundational patterns later reused in multiple product initiatives.

Jan 2022 - Jul 2022

#### Product Development Intern

- Built Jenkins CI/CD pipelines integrated with Git version control to automate creation, modification, and deletion of VSAM and GDG mainframe datasets-replaced a manual, error-prone process and cut dataset provisioning time from ~30 minutes to under 2 minutes per request for the development team.

### Celebal Technologies

Jul 2021

#### Back End Developer

- Built an NLP-powered conversational chatbot using Python and TensorFlow, applying software engineering fundamentals and algorithms to deliver end-to-end intent classification and response generation within a 4-week internship window.

## EDUCATION

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### UPES

Computer Science Engineering, Computer Science Engineering

2018 - 2022

Dehradun, India

## TECHNICAL SKILLS

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- **AI/Agentic Frameworks:** LangGraph, LangChain, Agentic Workflows, Multi-Agent Orchestration, Tool-Calling, Copilot Design
- **LLM Ops and Engineering:** RAG Pipelines, Self-RAG, Prompt Engineering, Fine-Tuning, Hallucination Detection, Confidence Scoring, Chain-of-Thought Reasoning, Transformer Architecture, Vector Databases
- **Enterprise Systems:** Mainframe / z/OS, BMC AMI, IBM IMS, IBM DB2, Log Analysis, System Observability
- **Cloud and Backend:** Python, FastAPI, AWS SageMaker, PyTorch, TensorFlow, Angular, TypeScript, Git
- **Computer Science Fundamentals:** Algorithms, Data Structures, Software Engineering Fundamentals

## AWARDS

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- **BMC IMS Impact Makers Award, Q1 FY26:**BMC Software - Recognized for high-impact AI contributions to the IMS product line.
- **IBM ICE 2022 Gold Medalist:**IBM - Secured 1st position in the IBM ICE 2022 competition, demonstrating cross-platform innovation and deep familiarity with IBM ecosystem tooling.