

# SANKALP BOSE

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## Professional Summary

- Hands-on Engineering Manager/Tech Lead driving technical excellence and fostering high-performing teams.
- 16+ years of software development experience encompassing **Cloud-Native Backend Services** and **Enterprise Storage** and 8+ years as a Tech Lead, driving projects end-to-end from feasibility analysis and technical strategy to execution planning.
- 8+ years of experience as technical **Team Lead** driving projects end to end including feasibility analysis, technical strategy, prototyping and streamlining of tasks.
- Owned end-to-end product charter for a critical cloud-native Azure service, **Azure Databricks**.
- Proven record as a versatile **problem solver** and adept at utilizing modern **AI-driven coding techniques** and **Agentic Design Patterns**.

## Academic Background

- *Indian Institute Of Technology, Kanpur* July 2004 - May 2009
  - B.Tech - M.Tech, Computer Science & Engineering, Specialization: Distributed Systems
  - CGPA BTech: 8.1/10, MTech.: 8.8/10

## Technical Skills

- *Languages:* Java, C, C#, Python, Javascript
- *Frameworks:* Asp.Net Core, Springboot, OAuth, MCP, ADK, LangChain/LangGraph
- *Cloud:* Azure, AWS, Cloudflare
- *Tools:* Docker, Kubernetes, Linux

## Professional Experience

- *Principal Engineering Manager/Sr. SWE at Microsoft* Dec. 2019 - Dec. 2025
  - *Group:* Azure Databricks
- *Software Developer, Amazon Lockers Team, Amazon* May 2016 - Sep. 2019
  - *Group:* Amazon Lockers
- *Software Developer, Filesystem Engg. at Tuxera Inc., Finland* Apr. 2014 - Feb. 2016
  - *Group:* Filesystems R&D
- *Senior SW Engg., Filesystem Engg. at Oracle India Pvt. Ltd., Pune* Jul. 2013 - Apr. 2014
  - *Group:* Filesystem Development
- *MTS, Performance Analysis at Netapp India Pvt. Ltd., Bangalore* Nov. 2010 - June 2013
  - *Group:* Filesystem Performance Engg.
- *Engineer, CoreBSP team at Qualcomm India, Hyderabad* July 2009 - Nov. 2010
  - *Group:* Linux/Android CoreBSP team

## Representative Work

- **Principal Engineering Manager/Sr. SWE at Microsoft, India** Dec. 2019 - Present
  - Managed a team of 5 engineers leading to 2/5 promotions and 100% retention rate.
  - Owned end-to-end product charter including customer facing backend, frontend systems and auxiliary components.
  - Collaborated with Product, Design, and other Engineering teams to align roadmaps and deliver complex cross-functional initiatives impacting Azure's most strategic customers.
  - Identified and prioritized key technical investments that enabled future product innovation and mitigated critical risks.
  - Delivered as tech lead on initiatives like Zero touch region deployment, Zero Touch Certificate Management, Network Security Perimeter etc.
- **SDE-2 at Amazon, India** May. 2016 - Sep. 2019
  - Developed system to perform over the air upgrade of a fleet of systems.
  - Led a team of 5 developing solutions to assist mobility and vision impaired customers. Defined technical architecture and built prototypes proving our strategy. Project won 2 awards internally.
  - Led initiatives to improve scalability and reduce operational burden for support teams.
- **Software Developer at Tuxera Inc, Finland** Apr. 2014 - Mar. 2016
  - Laid ground work for a new product Tuxera flash friendly filesystem.
  - Improved filesystem's block allocator by making it non-serialized resulting in significant performance gains.
  - Implemented logic to align writeback to flash boundaries which improved performance of concurrent writes by over 150%.
  - Designed automated framework for evaluating filesystem's lifetime on flash memories by defining characteristic workloads and comparing wear statistics dumped from flash device. Results led to subsequent optimization ideas.
- **Senior Software Engineer at Oracle India, Pune** July 2013 - Apr. 2014
  - Involved in early stage development of a modern highly scalable filesystem based on software transactional memory based concurrency control.
  - Worked on improving readahead detection and identifying key statistics to aid performance debugging and add them to the collection framework.
- **Engineer at Netapp India, Bangalore** Nov. 2010 - Jun. 2013
  - Engineering specialist for performance analysis of modules like Filesystem, RAID, storage within ONTAP operating system.
  - Part of 2 member team responsible for performance characterization of file cloning feature of WAFL.
- **Device Driver Engineer at Qualcomm India** July 2009 - Nov. 2010
  - Managed the serial and bluetooth host driver subsystem for several SoC targets.
  - Identified inconsistencies and made crucial fixes targeting newer multi-core ARMv7 processors which introduced new features like speculative readahead, weak memory consistency, lock contention and mutual exclusion.

## Achievements/Other Activities

- All India Rank 312 among 180,000+ students in the IIT JEE, the exam for admission to the IITs and All India Rank 230 among about 300,000+ candidates in the AIEEE.