Abhinav P Inamdar

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EDUCATION

BMS College of Engineering — B.E. Computer Science (GPA: 8.0/10, Top 20%) Aug 2026
Relevant Coursework: Distributed Systems, Operating Systems, Computer Networks, DBMS, Data Structures and Algorithms, Optimization Techniques, Linear Algebra, Probability and Statistics

SELECTED PROJECTS

EchoFS: Distributed File System(Go, AWS S3, gRPC, DynamoDB) Jan–Oct 2025
- Designed and implemented a distributed, multi-tiered file system capable of dynamically switching between strong and eventual consistency to optimize latency and throughput.
- Engineered metadata and data tiers with hash-based partitioning, replication for durability and consistency.
- Developed adaptive policy controller leveraging real-time telemetry to improve write performance by 25%.
- Integrated AWS S3 as a scalable backend for fault isolation and hybrid storage.

TCO Configurator(Go, Kubernetes, Promtail, Prometheus) Aug 2025
- Built a multi-tiered control plane with distributed policy enforcement using Kubernetes CRDs.
- Applied optimization algorithms (linear and heuristic) to balance log traffic under resource constraints.
- Reduced system overhead by 30% through algorithmic throttling and adaptive backoff strategies.
- Demonstrated strong ownership in designing scalable, distributed automation workflows.

Fake Review Detection System(Python, TensorFlow, Docker, AWS ECS) Nov 2024
- Built a Bi-LSTM model (97% accuracy) to detect fake reviews and deployed it via Docker on AWS ECS for scalable inference.
- Integrated a Chrome extension for real-time predictions, improving response latency by 40%.
- Showcased end-to-end design from model training to real-world product deployment.

Taxotomy – Complete Tax Guide(Next.js, TypeScript, Redux, DynamoDB) Oct 2023
- Engineered a secure tax planning platform supporting authentication, data persistence, and regime comparison workflows.
- Migrated backend from MongoDB to DynamoDB, achieving 3x query performance and lower cost.
- Designed modular APIs and reusable components for maintainability and speed.

OPEN SOURCE & RESEARCH

- Contributor to distributed systems open-source projects .
- Research under review: adaptive consistency and distributed task scheduling (IEEE TCC, 2025).
- Exploring decentralized consistency for onchain and blockchain-based storage systems.

TECHNICAL SKILLS

Languages: Go, Python, C,C++, TypeScript, Java
Backend & Cloud: AWS (S3, ECS, DynamoDB), Docker, Kubernetes, gRPC, REST APIs
Systems & Infra: Distributed Systems, Concurrency, Scalability, Fault Tolerance, Observability
Databases: PostgreSQL, DynamoDB, MongoDB, MySQL(relational databases)

ACHIEVEMENTS & COMPETITIONS

- Regional Finalist, SAP Hackfest 2025 – Top 20/500+ for cloud-native infrastructure solution.
- Competitive Programming: 200+ problems solved (LeetCode 1610+, Codeforces 1300+, CodeChef 2* 1400+).

LEADERSHIP & ACTIVITIES

- Junior Coordinator, College Fest 2024 – Led a 15-member cross-functional team executing 10+ events for 1,000+ attendees.