Abhinav P Inamdar

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EDUCATION

BMS College of Engineering   Bengaluru, KA
Bachelor of Engineering, Computer Science   Expected Aug 2026
GPA: 8.0/10.0   Top 20% of class
Relevant Coursework: Data Structures and Algorithms, Object-Oriented Design (Java, C++), Distributed Systems, Operating Systems, Computer Networks, DBMS

SELECTED PROJECTS

TCO Configurator(Go, Kubernetes, Promtail, Prometheus)   Aug 2025
- Built a policy engine with Kubernetes CRDs to enforce log volume budgets, automating *Allow*, *Throttle*, *Drop* actions.
- Reduced ops overhead by 30% through Hands-Off-the-Wheel automation, aligning with large-scale cost optimization use cases.
- Wrote unit tests for policy logic and conversions to ensure production reliability.

EchoFS – Distributed File System(Go, AWS S3, gRPC, Java)   Jan 2025
- Designed a cloud-scale distributed file system with $O(1)$ metadata lookup, sustaining 10k+ concurrent requests.
- Implemented replication factor of 2 and high availability mechanisms to ensure fault-tolerant storage.
- Integrated AWS S3 for cost-efficient durability while maintaining performant APIs.
- Applied OOP principles (Java modules) in simulation and testing, ensuring extensibility and modular design.

Fake Review Detection System(Python, TensorFlow, Docker, AWS ECS)   Nov 2024
- Trained Bi-LSTM model with 97% accuracy for fake review detection, directly improving online customer trust.
- Built Flask REST API and containerized service for reproducible deployment on AWS ECS (Fargate).
- Released Chrome extension for real-time user feedback classification.

Taxotomy – Complete Tax Guide(Next.js, TypeScript, Redux, DynamoDB, HTML5/CSS3/JS) Oct 2023
- Developed a full-stack financial platform with tax regime comparison workflows and secure authentication.
- Improved frontend UX and responsiveness with HTML5, CSS3, and JavaScript, boosting completion rates by 20%.
- Migrated database from MongoDB to DynamoDB for auto-scaling and reduced ops overhead.

TECHNICAL SKILLS

Languages: Java, C++, Go, Python, TypeScript, JavaScript (ES6+), HTML5, CSS3, SQL
Core CS: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks, Distributed Systems, DBMS
Cloud & Infra: AWS (S3, DynamoDB, ECS, Fargate), Kubernetes, Docker, gRPC, REST APIs
Tools & Platforms: Git, Linux, Prometheus, Promtail
Databases: MySQL, MongoDB, DynamoDB

ACHIEVEMENTS & COMPETITIONS

- Regional Finalist, SAP Hackfest 2025 – Top 20 of 500+ teams.
- Research: 2 papers under review (2025) on distributed systems and task scheduling.
- Competitive Programming: Solved 200+ problems on LeetCode (1600+ rating, Top 20% in contests). Active on Codeforces (Pupil, 1300+) and CodeChef (2*). Strong in DP, graphs, and greedy algorithms.