Abhinav P Inamdar

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EDUCATION

BMS College of Engineering Bengaluru, KA
Bachelor of Engineering Expected August 2026
Major in Computer Science
Cumulative GPA: 8/10.0
Relevant Coursework: Distributed Systems, Data Structures and Algorithms, Software Engineering, Operating Systems, Computer Networks, Database Management Systems, Object-Oriented Design

PROJECTS

EchoFS(DFSS) |Go, AWS S3 (object storage), Custom Metadata Server, gRPC API January 2025
- Designed and engineered a secure, scalable distributed file system using Go and AWS S3 with modular architecture supporting 10K+ file mappings and stateless services for high-availability deployments.
- Built a custom metadata server supporting O(1) lookups under concurrent load, eliminating reliance on pre-built solutions like Ceph or MinIO.
- Leveraged cloud object storage for cost-effective data management, reducing per-GB storage costs by 25%.
- Configured fault-tolerant replication (replication factor of 2) and stateless APIs, achieving 90% system availability during high-volume access.

Fake Review Detection System |Python, TensorFlow, Docker, AWS ECS November 2024
- **Machine Learning:** Crafted a Bi-LSTM model that achieved 97% accuracy by analyzing textual patterns, metadata, and reviewer behavior.
- **Natural Language Processing:** Applied tokenization, padding, and embedding techniques to extract rich features, boosting model performance by 40%.
- **Containerization:** Packaged the ML model and API into Docker containers, improving deployment speed by 45% and minimizing environment discrepancies.
- **Cloud Deployment:** Rolled out the system on AWS ECS (Fargate), supporting 100+ daily requests with minimal ops overhead. Delivered a Flask-based REST API for smooth integration.
- Shipped a Chrome extension for real-time fake review detection on platforms like Amazon, gaining 50+ users.

Chess Engine |Python, OpenCV, C, Microcontroller January 2024
- Developed a chess engine using the Minimax algorithm with Alpha-beta pruning, reducing decision latency by 30% and supporting 6-ply search.
- Enhanced the search logic by integrating the Negamax variant, extending depth from 3 to 6 levels to enable more complex move planning.

Taxotomy: A Complete Tax Guide |Next.js, TypeScript, Redux, AWS DynamoDB October 2023
- Spearheaded a full-stack financial platform with secure role-based authentication and RESTful API integration, safeguarding 200+ user records.
- Engineered backend services with layered security controls, ensuring resilient data access and compliance.
- Refined frontend UX using Next.js, increasing form completion rate by 40% through intuitive flow and visual enhancements.
- Orchestrated state management with Redux, ensuring efficient handling of 5+ interactive form states.
- Transitioned data storage from MongoDB to AWS DynamoDB, improving horizontal scalability and reducing vendor lock-in.

TECHNICAL SKILLS

Languages: Python, Go, TypeScript, JavaScript, C, C++, Java, SQL
Frameworks: Flask, React.js, Next.js
Cloud/Tools: AWS (S3, ECS, DynamoDB, Fargate), Docker, Kubernetes, REST, gRPC APIs, GitHub
Machine Learning: NumPy, Pandas, TensorFlow, Scikit-learn
Databases: MySQL, MongoDB
Achievements: Regional finalist for SAP Hackfest 2025, LeetCode 1600 rating with 110+ problems solved
Certifications & Training: Python for Data Science (IBM), Machine Learning with Python (IBM)