

SHIVA BALAJI KONTHAM

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INTRODUCTION

Results-driven Computer Science undergrad passionate about building scalable systems and applying AI for automation. Demonstrated ability in distributed computing, DevOps pipelines, and real-world software engineering. Strong foundation in object-oriented design, data structures, and algorithms with a track record of delivering robust software solutions. Fast learner with excellent communication skills and a 9.4 CGP.

EDUCATION

Bachelor of Technology, Computer Science and Engineering, Vardhaman College Of Engineering, Shamshabad.

- 9.3 CGPA (Ongoing) 2022 - 2026

SKILLS

Technical Skills	i. Programming Languages: Python, C, Java, HTML, CSS, JavaScript.
	ii. Concepts: Cybersecurity, Distributed Systems, Machine Learning, TCP/IP, Agile.
	iii. Tools: Flask, TensorFlow, Pandas, MongoDB, Git, Linux, AWS, GCP.
Soft Skills	Communication, Teamwork and Collaboration, Problem Solving, Adaptability.

PROJECTS

- Distributed Chat Application (Java, TCP/IP, Multithreading)**
Engineered a multithreaded P2P chat system with synchronized client handling and robust error recovery. Demonstrated mastery of Java socket programming, concurrent systems, and distributed architecture.
- Scalable Document Query Engine (AWS Lambda, Pinecone, LangChain)**
Built a scalable document intelligence platform using RAG, serverless architecture, and semantic vector search. Enabled users to upload files, query content via natural language, and get real-time responses through an S3-based backend and Pinecone-powered index.
- Cloud Cost Optimization Dashboard (AWS Lambda, DynamoDB, S3, CloudWatch)**
Built a full-stack cloud monitoring dashboard to optimize AWS billing. Automated resource checks, triggered alerts via SNS, and visualized usage patterns through S3-hosted UI. Achieved 30% cost reduction in simulated scenarios.
- Flipkart Review Sentiment Analysis (Python, Pandas, NLP)**
Built an NLP-based sentiment analysis engine for Flipkart customer reviews.
Achieved >85% sentiment classification accuracy using pre-trained models and custom pipelines.
Provided analytics dashboard for product feedback trends.
- VUEBUS – Real-Time School Bus Tracker (MERN Stack)**
Developed a live-tracking system for school transportation with route optimization.
Integrated Google Maps API to track bus locations in real time.
Ensured high uptime with robust backend architecture on MongoDB + Node.js.
- Pitch-It Platform (HTML/CSS/JS, Firebase)**
Created a startup platform to connect investors and entrepreneurs.
Designed an intuitive UI/UX and built a backend authentication system with Firebase Auth.

EXPERIENCES

- **Cybersecurity Analyst – Job Simulation (TATA Group via Forage)** 2024 (Remote)
 - Simulated identity & access management (IAM) protocols with a mock cybersecurity consulting team.
 - Delivered technical documentation and visual architecture diagrams.
- **Solutions Architect – Job Simulation (AWS via Forage)** 2023 (Remote)
 - Proposed scalable AWS-based architecture using Elastic Beanstalk to improve client performance by 40%.
 - Communicated system design and pricing in business-friendly language.

CERTIFICATIONS

- **Google Cloud Fundamentals: Core Infrastructure** – Coursera (*offered by Google*) **pursuing*
- **Front End Web Developer Certification** – Infosys, 2025
- **Machine Learning Foundation Certification** – Infosys, 2025
- **TCP/IP and Computer Networking** – Udemy, 2025
- **Artificial Intelligence Primer** – Infosys, 2024
- **MongoDB Essentials** – MongoDB University, 2023