

Bhanu Teja Panguluri

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Skills

- **Languages:** Python, C++, Java, JavaScript, React
- **Databases:** MySQL, PostgreSQL, MongoDB, Oracle, Hadoop, Spark.
- **Data Science:** ETL, Power BI, Tableau, LLMs, Hadoop, Hive, Kafka, Databricks.
- **Cloud& DevOps:** Amazon Web Services(AWS), Google Cloud Platform(GCP), Git, Docker, Kubernetes.

Work Experience

Software Engineer University of Maryland College Park, MD, US 07/2024 - 05/2025

- Built a centralized inventory tracking system for procurement teams, reducing stockouts from 18% to 3% and improving order turnaround time by 20% across 10+ university departments.
- Automated budget analysis workflows using SQL and visualization tools (Tableau), enabling finance teams to reallocate resources more efficiently, leading to 12% cost savings over one fiscal year.
- Replaced error-prone manual reporting with Python scripts (pandas, NumPy), cutting daily processing time from ~2 hours to under 1 hour and improving data accuracy for audit compliance.

Data Engineer ZS Associates Pune, India 08/2021 - 07/2023

- Engineered a dynamic targeting system that personalized doctor recommendations for 250+ sales reps, boosting doctor engagement rates from 50% to 70% and increasing sales by 30%.
- Architected and implemented scalable ETL pipelines (AWS, PySpark, Hive) that ingested and processed 10 M+ records weekly, enabling agile marketing updates based on near-real-time practitioner behavior.
- Automated data workflows using Python (pandas, NumPy, scikit-learn), reducing processing time from 5 hours to 3 hours daily and seamlessly integrating with the mobile app.
- Analyzed 250+ user feedback responses and ran A/B tests to improve feature discoverability, raising product adoption from 40% to 70% within 2 quarters.
- Led development of Power BI dashboards linked to HiveQL queries, allowing leadership to track KPIs in real time, influencing a \$2M scale-up decision.
- Streamlined sprint planning and backlog refinement, reducing project timelines from 10 to 8 weeks and boosting team productivity through improved collaboration with cross-functional teams.

Software Development Engineer Toshiba Bangalore, India 01/2021 - 08/2021

- Optimized CUDA-based image reconstruction algorithms, improving MRI/CT scan processing time from 15s to 12s per image (~20% gain), accelerating clinical feedback loops.
- Developed core backend modules (C++, CUDA, Python) using Fourier transforms to process high-resolution medical imaging data, enabling clearer diagnostics for radiologists.
- Increased code reliability by 10% and enhanced testing efficiency by developing comprehensive test suites.

Projects

Scalable and Secure E-Commerce Platform on AWS

- Deployed containerized microservices on AWS EKS and Docker, handling 100,000+ users with 97% uptime.
- Secured the platform with AWS WAF, KMS, and multi-AZ RDS MySQL, achieving PCI DSS compliance and zero data loss.
- Reduced latency by 25% using S3 and CloudFront; cut simulated incident response time by 70% with CloudWatch alerts.

SkillsBerg – E-Learning Management System

- Designed scalable architecture using UML and SOLID principles, reducing system complexity by 30%.
- Built and deployed a scalable web platform (React, Node.js, Firebase) on GCP, supporting 10K+ concurrent users.
- Authored architecture and design document that reduced feature development time from 10 to 7 days.

Education

Master's in Software Engineering University of Maryland College Park, MD, US 08/2023 - 05/2025

**Bachelor's in Computer Science
Hons. Big Data Analytics** Chandigarh University Punjab, India 08/2017 - 05/2021

Certifications

AWS Certified Cloud Practitioner | CodePath - Advanced Technical Prep | IBM Certified Big Data Engineer – Mastery Award