

# Bhanu Teja Panguluri

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Badges



## Professional Summary

Software/Data Engineer with 3+ years of experience building high-performance ETL pipelines and scalable backend systems. Expert in Python, SQL, PySpark, and AWS, delivering distributed, cloud-native data solutions that drive real business value.

## Certifications

AWS Certified Cloud Practitioner | 5-Star Coder on HackerRank | IBM Certified Big Data Engineer – Mastery Award | Machine Learning with Big Data | CodePath - Advanced Technical Prep | Certificate of Excellence in Competitive Programming

## Skills

- **Languages & Tools:** Python, C++, JS, Databricks, Snowflake, LangChain, Hugging Face, SQL, React, Java, C, AWS, CUDA, Docker, K8s.
- **Data Science:** ETL, LLMs, RAG, TensorFlow, PyTorch, Scikit-Learn, Hadoop, Hive, Glue, Kafka, Spark, Scala, MongoDB, Power BI, Tableau.
- **Domain Skills:** Microservices, Distributed Systems, Full-Stack, System Design(HLD, LLD), Object-Oriented Programming(OOP), Big Data, Data Visualization, Data Structures and Algorithms, Machine Learning, Gen AI, Stakeholder Management, Cross-functional Collaboration.

## Experience

**Software Engineer** University of Maryland *College Park, MD, US* **08/2023 - Present**

- Lowered stockouts from 15% to 5% and raised procurement efficiency from 80% to 90%, saving \$70K annually.
- Lifted budget analysis accuracy from 75% to 95%, enabling \$300K in cost savings with SQL-backed reporting and dashboards.
- Streamlined manual reporting time by 65% and boosted data accuracy from 70% to 95%, saving 60+ developer hours monthly by building Python-based pipelines for data cleaning and reporting.

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

- **Drove \$1M+ revenue growth**, boosting sales from \$3.3M to \$4.3M and engagement rates from 60% to 80% with an ML-powered dynamic targeting solution.
- **Cut ETL pipeline time from 6 to 3.5 hours**, saving 60+ developer hours/month, by building scalable data pipelines with AWS, SQL, Hive, and PySpark.
- **Increased workflow automation** from 60% to 90%, saving 50+ developer hours monthly, by replacing manual processes with Python pipelines that power real-time recommendations in the mobile app.
- **Improved feature discoverability** from 65% to 85% and platform adoption from 70% to 90% through user feedback analysis, UX enhancements, and A/B testing.
- **Elevated data-driven decision-making** from 60% to 90% by delivering custom KPI dashboards in Power BI and HiveQL, which led to full-scale project adoption and \$2M revenue growth.
- **Accelerated project delivery** by reducing completion time from 10 weeks to 8 weeks and saving 80+ developer hours per quarter through streamlined backlog prioritization and cross-team communication.

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

- Boosted image reconstruction speed by 20% (45 to 36 minutes), saving 40+ developer hours monthly through CUDA-optimized algos.
- Enhanced diagnostic accuracy from 85% - 95% by building Fourier transform and ML pipelines in C++, CUDA, and Python(SciPy,OpenCV).
- Strengthened code reliability from 80% to 90% and shortened testing cycles by 25% with robust test suites.

## Projects

- **Scalable and Secure E-Commerce Platform on AWS**
  - Achieved 97% uptime for 100K+ users by deploying containerized microservices on AWS EKS and Docker.
  - Delivered PCI DSS compliance and eliminated data loss risks by securing the platform with AWS WAF, KMS, and multi-AZ RDS MySQL
  - Reduced global latency by 25% (200ms to 150ms) using CloudFront and S3, and cut incident response time from 10 to 3 minutes through automated CloudWatch alerts.
- **SkillsBerg: E-Learning Management System**
  - Simplified system architecture by 30% using UML and SOLID principles.
  - Built and deployed a scalable web platform (React, Node.js, Firebase) on GCP with CI/CD pipelines, supporting 10K+ concurrent users.
  - Authored architecture and design document that reduced feature development time from 10 to 7 days and supported modular growth.

## Education

**Master's in Software Engineering** University of Maryland *College Park, MD, US*

**Bachelor's in Computer Science** Chandigarh University *Punjab, India*