

Shanti Rajashekhar Jangam

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EDUCATION

Indiana University Bloomington

Master of Science in Computer Science, GPA: 3.78/4.0

Aug '24 – Present

Indiana, United States

SJB Institute of Technology

Bachelor of Engineering in Computer Science, GPA: 3.7/4.0

Aug '18 – Jul '22

Bengaluru, India

SKILLS

Languages: Java, Python, JavaScript, TypeScript, HTML/CSS, SQL

Frameworks: React, Spring Boot, Node.js, FastAPI, Express.js, TensorFlow, Scikit-learn, Hugging Face Transformers

Databases: PostgreSQL, MongoDB, Redis, SQL Server

Cloud & DevOps: AWS, Azure, Docker, Kubernetes, Jenkins, Git, CI/CD

Tools: Redux, Grafana, Prometheus, Jest, Material-UI, Tailwind CSS, SSIS, ETL, Tableau, REST APIs

Platforms: Linux/Unix, Windows, macOS

EXPERIENCE

Indiana Business Research Center

Software Engineer Intern

May '25 – Present

Indiana, United States

- Refactored SSIS pipelines to reduce data processing time by 60% and speed up Tableau/SSRS report generation by 40%.
- Migrated legacy SSIS to Python scripts on AWS EC2, boosting ETL performance by 80%.
- Created PowerShell/Python scripts to monitor SQL Server health across 20+ servers, cutting manual checks by 50%.
- Moved ETL workloads to IU cloud infrastructure, improving data ingestion by 50% and transformation by 40%.
- Automated code analysis for 20+ Gateway apps, helping prioritize tech debt and guide platform modernization.

Mercedes-Benz Research and Development India

Software Development Engineer

Aug '22 – Aug '24

Bengaluru, India

- Built React + TypeScript UI for MASSP, a unified App Store approval platform used by 500+ internal apps, with 95%+ Jest unit test coverage.
- Integrated Black Duck, SecHub, and Coverity scanners for automated reviews, cutting manual effort by 60% across 200+ apps/month.
- Developed Spring Boot REST APIs handling 10K+ daily requests across core services and security integrations.
- Migrated 2M+ records from PostgreSQL to MongoDB, improving query performance by 40% and reducing latency by 300ms.
- Managed deployment pipelines and post-migration rollout across multi-cloud environments with zero downtime.
- Implemented Grafana dashboards to track app health and usage, reducing incident response time by 40%.

IBM India

Machine Learning Intern

Jan '22 – Jun '22

Bengaluru, India

- Built ML models for text classification and time series forecasting on JIRA data, boosting accuracy by 35% and saving 60% manual effort.
- Created Power BI dashboards and automated CI/CD pipelines for real-time KPI tracking and faster deployments.

PROJECTS

TeamUp - Event/Venue Management System - [Link](#)

React.js, TypeScript, Node.js, PostgreSQL, Stripe, Redis, Docker, WebSockets

- Built a microservices-based platform with real-time booking, chat, and Stripe-powered payments for sports events.
- Added JWT/OAuth2 authentication, MFA, and analytics dashboard to secure and streamline user experience.
- Designed scalable backend with Redis caching, PostgreSQL storage, and automated CI/CD pipelines.

Distributed Redis Cache System - [Link](#)

Node.js, Redis, ZooKeeper, gRPC, Prometheus, Docker

- Built consistent-hashing based Redis cluster with automatic failover and 99.9% uptime.
- Used ZooKeeper for node discovery and race condition handling, maintaining cluster consistency.
- Integrated Prometheus and Grafana for real-time monitoring and sub-ms response time tracking.

SmartMedia Analyst - Real-Time AI-Powered Media Monitoring Platform - [Link](#)

Python (FastAPI), Docker, PostgreSQL, Hugging Face Transformers, ffmpeg, yt-dlp

- Developed FastAPI microservices to ingest and transcribe live streams (YouTube, radio, podcasts) using Hugging Face ASR.
- Automated full pipeline from media ingestion to searchable transcript storage in PostgreSQL.
- Integrated ffmpeg, yt-dlp, and custom media server for real-time control and AI-driven media orchestration.

DevSync - Collaborative Code Environment - [Link](#)

React.js, TypeScript, Socket.IO, Monaco Editor, Docker

- Built real-time collaborative editor with Socket.IO and Monaco, supporting live cursor sync and syntax highlighting.
- Enabled multi-language editing with conflict resolution and persistent chat across sessions.
- Designed concurrency-safe architecture for simultaneous edits in JS, Python, Java, and C++.