

SHANTI JANGAM

Software Development Engineer

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EDUCATION

Indiana University Bloomington, Indiana, United States

Aug 2024 – May 2026

- Master of Science in Computer Science GPA: 3.8

SJB Institute of Technology, Bengaluru, India

Aug 2018 – Jul 2022

- Bachelor of Engineering in Computer Science GPA: 3.7

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, Go, JavaScript, TypeScript, SQL, C++, HTML/CSS
- **Frameworks & Libraries:** Spring Boot, React, Node.js, Next.js, Express.js, FastAPI, TensorFlow, Scikit-learn, Pandas, Redux
- **Databases & Data Technologies:** PostgreSQL, MongoDB, MySQL, Redis, SQL Server, NoSQL, MapReduce, ETL
- **Cloud & DevOps Tools:** AWS (Lambda, EC2, S3, SQS, EKS), Azure, Docker, Kubernetes, Jenkins, CI/CD, Git, Grafana, Prometheus, Postman, REST APIs, GraphQL, gRPC
- **Platforms:** Linux/Unix, Windows, macOS

WORK EXPERIENCE

Indiana Business Research Center, Indiana, United States

Feb 2025 – Present

Software Engineer | Python, React, JavaScript, AWS EC2, ETL

- Built a reusable UI library for the StatsAmerica platform, speeding new project onboarding by 40%.
- Boosted dashboard performance by 300ms via advanced caching with React Query, memoization, & selective re-rendering.
- Modernized data pipelines by refactoring legacy SSIS to Python ETL on AWS, boosting performance by 80%.

Mercedes-Benz R&D India, Bengaluru, India

Aug 2022 – Aug 2024

Software Development Engineer | Java Spring Boot, React, TypeScript, AWS, SQL, MongoDB, Docker, Kubernetes, Grafana

- Developed a high-performance front-end architecture with React & TypeScript for an app approval platform serving 500+ internal teams.
- Improved front-end code quality by achieving 95% unit test coverage with Jest, reducing bugs & regressions.
- Engineered scalable Spring Boot microservices & REST APIs to handle 10K+ daily requests for the approval workflow.
- Implemented an AWS SQS-based messaging system to automate a chained approval email notification process, improving workflow reliability.
- Executed a zero-downtime migration of 2M+ records from PostgreSQL to MongoDB, boosting query performance by 40%.
- Designed a reporting feature supporting 10+ countries, ensuring localized legal compliance and international scalability.
- Launched Grafana dashboards to track app health & KPIs, cutting mean time to resolution (MTTR) by 40%.
- Automated CI/CD security scanning for 200+ apps/month, slashing manual approval effort by 60%.

IBM India, Bengaluru, India

Jan 2022 – Jun 2022

Software Engineer Intern | Python, TensorFlow, Scikit-learn, Power BI, Jenkins

- Trained ML models to automate JIRA classification, boosting accuracy 35% & cutting manual sorting by 60%.
- Deployed a Jenkins CI/CD pipeline that accelerated model deployment cycles by 50% & built Power BI dashboards for KPI tracking.

PROJECTS

TeamUp - Event/Venue Management System | React.js, TypeScript, Node.js, PostgreSQL, Redis, Docker, WebSockets - [Link](#)

- Architected a full-stack event management platform using a microservices backend to support real-time booking, live chat, and Stripe payments; ensured scalability and security with Redis caching, JWT/OAuth2, and an automated CI/CD pipeline.

Distributed Redis Cache System | Node.js, Redis, ZooKeeper, gRPC, Prometheus, Docker - [Link](#)

- Engineered a high availability distributed Redis cluster using consistent hashing and ZooKeeper for automatic failover and service discovery, achieving 99.9% uptime while tracking sub-millisecond latency with Prometheus and Grafana.

SmartMedia Analyst - AI-Powered Media Monitoring | Python, FastAPI, Docker, PostgreSQL, Hugging Face Transformers - [Link](#)

- Developed a real-time AI media monitoring pipeline using FastAPI microservices and Hugging Face Transformers to automatically ingest, transcribe, and index live video/audio streams into a searchable PostgreSQL database with ffmpeg-based media controls.

DevSync - Collaborative Code Environment | React.js, TypeScript, Socket.IO, Monaco Editor, Docker - [Link](#)

- Built a browser-based, real-time collaborative code editor using React and the Monaco Editor, implementing live cursor synchronization, multi-language support, and persistent chat sessions via a Socket.IO backend.

CERTIFICATIONS

- [AWS Educate Introduction to Generative AI](#)
- [Software Engineer Internship Completion Certificate - IBM](#)
- [The Modern JavaScript BootCamp](#)