Anjana Vollala

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Software Engineer

Summary

Software Engineer with 3+ years of experience in Quality Engineering, delivering high-throughput services using TypeScript, and cloud-native platforms, resulting in enhanced decision accuracy and operational efficiency. Utilized problem-solving skills to drive continuous learning and cross-functional collaboration, improving communication across teams.

Technical Skills

Programming Languages: TypeScript, Python, JavaScript, SQL, GoUndo

Frontend & Full Stack Engineering: React, Angular, Next.js, Redux Toolkit, TanStack Query, Micro-Frontend Architecture, HTML5, CSS3, Tailwind CSS, Web Accessibility (WCAG), Component-Driven Development, Server-Side Rendering

Backend & Distributed Systems: FastAPI, Django, Flask, Node.js, RESTful APIs, GraphQL, gRPC, Async Processing, Event-Driven Architecture, API Gateway, OAuth 2.0, JWT, WebSockets, Serverless Architecture, Resilience Patterns, High-Throughput Services

AI / Machine Learning Engineering: PyTorch, TensorFlow, Scikit-learn, Hugging Face, Transformers, LangChain, LlamaIndex, Retrieval-Augmented Generation (RAG), Prompt Engineering, LLM Evaluation, AI Guardrails, Vector Databases (Pinecone, Weaviate, FAISS), Feature Engineering, Model Serving, Distributed Training, Model Optimization, MLflow, Kubeflow, MLOps, NLP, Recommendation Systems, Video Generator, Video GeneratorUndo

Cloud, DevOps & Platform Engineering: AWS (EKS, ECS, Lambda, S3, SageMaker), Microsoft Azure (AKS, Azure ML, Functions, Blob Storage, Cosmos DB), Google Cloud Vertex AI, Docker, Kubernetes, Terraform, GitHub Actions, CI/CD Pipelines, System Design, Distributed Caching (Redis), Streaming (Apache Kafka, RabbitMQ), Elasticsearch, Observability (Prometheus, Grafana, OpenTelemetry), Test Automation (PyTest, Jest), Secure Coding, Performance Engineering, Scalability Practices

Professional Experience

Software Engineer, *PwC* Jan 2025 – Present | Remote, USA

- Designed and implemented a regulatory analytics platform using FastAPI, React, and PostgreSQL, leveraging problem-solving skills to drive continuous learning and cross-functional collaboration, resulting in a 25% reduction in compliance reporting time.Undo
- Implemented GraphQL services using Docker and AWS ECS, improving data exchange patterns and reducing feature delivery cycles by 30%, while utilizing communication skills to collaborate with cross-functional teams.Undo
- Developed fraud detection models using PyTorch on transaction streams, engineering behavioral features that elevated anomaly identification precision by 26% and enabled auditors to prioritize investigations with stronger risk signals.
- Built Retrieval-Augmented Generation assistant using LlamaIndex and OpenAI embeddings to interpret policy documents, reducing research effort by 41% while improving interpretive consistency during time-sensitive audit reviews.
- Operationalized recommendation models via Kubeflow pipelines, introducing automated retraining that increased cross-sell identification accuracy by 19% and supported advisory teams with opportunities across portfolios.
- Established model observability with Evidently AI and Prometheus, surfacing drift insights that drove recalibration cycles and improved forecast stability by 17% across quarterly financial risk assessments.
- Developed a Video Generator using TypeScript, resulting in a 40% increase in video production efficiency, and demonstrating expertise in Quality Engineering and problem-solving.

Software Engineer, *TCS* Aug 2021 – Jul 2023 | Remote, India

- Engineered claims processing platform using Python, Django, Angular, and MySQL, consolidating insurer workflows into unified services that reduced manual interventions and improved processing turnaround across distributed environments.
- Architected event-driven microservices with Kafka and deployed containers on Kubernetes via Azure DevOps CI/CD pipelines, stabilizing release cycles and lowering production defects through automated testing and progressive rollout strategies.
- Optimized relational queries and caching strategies within MySQL-backed APIs, accelerating response times for high-volume policy searches while supporting concurrent users without service degradation during regulatory reporting periods.
- Built predictive claim severity model using Scikit-learn and feature-engineered historical adjudication datasets, enabling risk-based triaging that improved adjuster prioritization accuracy by 22% and shortened investigation queues.
- Developed NLP pipeline leveraging Transformers to extract medical entities from unstructured documents, automating validation workflows and increasing straight-through claim eligibility detection by 31% across enterprise intake channels.
- Implemented Retrieval-Augmented Generation framework with LangChain and vector indexing to assist agents with policy interpretation, decreasing knowledge lookup time by 37% and strengthening response consistency during audits.
- Operationalized ML models through MLflow on Azure Kubernetes Service, introducing automated monitoring that detected drift early and sustained prediction reliability above 90% across quarterly model evaluations.

Education

Master of Science in Computer Science, University of Texas- Arlington Aug 2023 – May 2025 | Texas, USA

Bachelor of Engineering in Computer Science and Engineering, MRIET Jul 2018 – Jul 2022 | HYD, India