Archit Keshav Gangal

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Summary

- Full Stack Developer with 6+ years of experience delivering enterprise applications across finance, insurance, QSR, and telecom domains.
- Strong expertise in Python, Java, C++, C#, .NET Core, React, Angular, and ASP.Net for end-to-end application development.
- Proven ability to design and deploy scalable backend systems, responsive frontends, and RESTful microservices.
- Hands-on experience integrating AI/ML models using TensorFlow, PyTorch, and Scikit-learn into production workflows.
- Skilled in cloud-native development, MLOps pipelines, and data engineering using AWS, Azure, GCP, and SQL databases.
- Authorized to work in the USA on STEM OPT for up to 3 years.

Technical Skills

Languages:	Java, J2EE, Python, C++, C#, .NET Core, Visual Basic, SQL, Golang, Shell Scripting
Web & UI Technologies:	HTML5, JavaScript, XML, AngularJS, React.js, ASP.Net, Web Services, Microservices
Backend & Frameworks:	Spring Boot, Hibernate, .NET Core, Django, Flask, API Development
Databases:	SQL Server, MySQL, Oracle, DB2, MongoDB, Snowflake, PL/SQL and Stored Procedures
Version Control & Tools:	Git, SVN, TFS, GitHub, JIRA, Confluence, Postman, Swagger, SonarQube
Operating Systems:	macOS, Windows, Linux (CentOS, Ubuntu)
Testing & Automation:	JUnit, TestNG, REST Assured, Unit & Integration Testing
Monitoring Tools:	Datadog, Splunk, Kibana, Grafana
Methodologies:	Agile (Scrum, Kanban), Waterfall
Cloud & DevOps:	AWS (LEX, CDK, EC2, S3, RDS, Lambda), Azure, Google Cloud Platform (GCP), Docker, Kubernetes, Jenkins, Ansible, Terraform
AI/ML & Data:	Databricks, TensorFlow, PyTorch, Scikit-learn, AIML, Data Analytics, Data Science, BI, Model Training & Deployment (Flask, FastAPI)

Professional Experience

Allstate Insurance **Aug 2022 – Jul 2024**

Fullstack Developer - XP

- Architected distributed multi-layer RESTful microservices with Java/J2EE Spring Boot, Hibernate, and Python (Flask/FastAPI), integrating Oracle, Snowflake, MongoDB with JSON/XML processing. Designed database schemas, PL/SQL procedures, delivered full-stack applications using AngularJS, jQuery, TypeScript, HTML5, CSS3, and deployed Kubernetes workloads on AWS (LEX, CDK, EC2, S3, RDS, Lambda) via Jenkins and Docker, reducing deployment time by 47%.
- Engineered distributed ETL and streaming platforms using Python, Kafka, SQL, Databricks, integrating TensorFlow, PyTorch, Scikit-learn for AI-driven analytics. Designed config-driven data processing services on Kubernetes clusters, built real-time visualization components with AngularJS and jQuery, improving throughput by 38% and API latency by 27%.
- Modernized legacy platforms to Java 17 by refactoring monoliths into distributed microservices, developing responsive full-stack applications with AngularJS, ReactJS, Node.js, JavaScript. Implemented Kubernetes config management and service synchronization, supported by JUnit, Mockito, REST Assured testing on Linux (Ubuntu), improving maintainability by 43% and reducing defects by 32%.
- Implemented CI/CD and infrastructure automation using GitHub Actions, Jenkins, Terraform, Ansible. Operated Kubernetes clusters across AWS and Azure, implemented centralized config management, API versioning, service synchronization, resiliency patterns, documented APIs with Swagger/OpenAPI, analyzed code quality with SonarQube, achieving 99.7% uptime.

Capgemini **Mar 2020 – Aug 2022**

Associate Software Engineer

- Managed Azure and GCP infrastructure using Docker, Kubernetes, Terraform, and Golang-based automation services, automated operations with Shell scripting on Linux (CentOS) and Windows, monitored systems via Splunk and Kibana, and improved monitoring and observability using Datadog and Grafana, achieving 99.6% uptime and reducing costs by 23%.
- Migrated legacy applications to microservices architecture using C#, .NET Core, ASP.Net Web Services, and Golang, integrating MySQL and SQL Server databases with stored procedures, documented RESTful APIs with Swagger, established CI/CD pipelines with Jenkins, and optimized performance via C++ and Golang integrations, reducing downtime by 42%, operational costs by 31%, and security incidents by 37%.
- Developed analytics platforms and dashboards with AngularJS, HTML5, JavaScript, XML, SQL, and BI tools, implemented API security and authentication, tested with TestNG, and managed development via SVN, TFS, Git branching strategies, JIRA, and Agile (Kanban) workflows with collaboration and process management through Confluence and ServiceNow.
- Developed data processing and analytics pipelines using Python, Golang, SQL, and Snowflake, implemented ML workflows with TensorFlow and PyTorch on cloud platforms, and automated reporting to improve decision-making by 28%.

Genpact **May 2017 – Feb 2020**
Process Software Developer

- Architected and deployed cloud-native multi-tier infrastructure on AWS (EC2, S3, RDS) with Docker containerization, developing scalable backend microservices using Java/J2EE 17, Spring Boot, and Python (Django/Django REST Framework). Designed database schemas, integrated Oracle and MySQL databases, and automated system administration tasks using Python and Shell scripting across Linux and Windows environments.
- Designed and built process automation and internal tooling platforms using React.js, HTML5, JavaScript, backed by Python Django REST APIs and MongoDB. Implemented secure web services (authentication, authorization, API security), monitored system health using Grafana, applied Scikit-learn for predictive analytics, and managed delivery using Git with branching strategies, JIRA, and Agile Scrum, reducing manual operational effort by 34%.
- Developed data analytics and reporting solutions using Python (Pandas, NumPy), SQL, and BI tools to deliver actionable operational insights. Implemented automated testing with JUnit, REST Assured, supported legacy system integrations using Visual Basic scripting, and managed CI/CD pipelines with Jenkins, GitHub, and Postman, improving overall operational efficiency by 22%.

Education

Colorado State University, Fort Collins, Colorado **Aug 2024 – Dec 2025**
Master's in Computer Information Systems (Major) - Concentration: Business Intelligence, Project Management

- Awarded 2nd place in Computer Science Department Hackathon for developing an AI-powered research paper classification system using Ollama3, integrating machine learning models with a React-based chatbot interface to analyze and provide intelligent insights on health research papers.
- Maintained 3.9 GPA with A+ grades in both AI/ML courses, demonstrating strong academic performance in artificial intelligence and machine learning coursework.

Projects

AI-Powered Literature Review System (RAG, Local LLM Stack) — GitHub **Nov 2025 – Dec 2025**

- Designed and implemented a Retrieval-Augmented Generation (RAG) system to enable professors and researchers to standardize, query, and synthesize academic literature from a local corpus of research papers.
- Built a React-based user interface that translated a technically complex RAG backend into an intuitive, user-facing workflow for day-to-day literature review tasks.
- Integrated the frontend with a fully local AI stack using LlamaIndex for ingestion/orchestration, Chroma for vector storage, BGE embeddings for retrieval, and Ollama (Gemma 3:4B) for inference.
- Ensured source-grounded, interpretable responses by anchoring model outputs to retrieved document context, minimizing hallucinations in unstructured academic data.
- Collaborated with faculty to refine retrieval accuracy, output transparency, and usability, contributing to an ongoing prototype targeted for institutional adoption within the CIS department.

AI CFO - Live Demo — GitHub **Sep 2025 – Oct 2025**

- Designed and developed an AI-powered CFO platform using React and a Python + PHP backend, architected as a distributed system leveraging efficient data structures and algorithms for financial forecasting, anomaly detection, and real-time analytics; built secure APIs, role-based access controls, and interactive dashboards, and contributed reusable components and utilities to open-source repositories.
- Architected and implemented a scalable distributed data ingestion and processing pipeline using Python and PHP, applying optimized data structures and algorithms to parse, validate, and normalize large Excel and CSV datasets; enabled AI-driven KPI dashboards and operational insights via a responsive web interface, while contributing ingestion modules and documentation to open-source projects.

ETL REST API **Aug 2022 – Jul 2024**

- Designed and deployed a high-performance REST API supporting over 1M daily transactions, reducing operational overhead by 38% and improving data access for 100+ users.
- Automated and optimized ETL workflows with real-time third-party API integrations, cutting manual processing by 43%, improving response times by 27%, and lowering server resource usage by 19%.

Achievements

- **Allstate Insurance:** Recognized for excellence in innovation by spearheading the modernization of legacy systems to Java 17 and implementing cutting-edge CI/CD pipelines, resulting in significant improvements in code maintainability, system reliability, and delivery speed across business-critical applications.
- **Genpact:** Awarded for outstanding performance in architecting cloud infrastructure solutions and developing automation frameworks that substantially improved operational efficiency, enhanced business continuity, and reduced manual processes across the organization.