

Arun Shetty – Senior Python Architect

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15+ Years of Experience | Bengaluru, India

Professional Summary

Results-driven Senior Python Developer & Application Architect with over 15 years of experience, including 10+ years in Python development and Azure-based architectures. Proven expertise in building scalable enterprise-grade and financial applications using Python, Django, Azure Functions, and Generative AI technologies. Currently leading the development of a GenAI-powered application using GPT-4o and LangChain. Experienced in team management, solution architecture, and project delivery.

Core Skills

- **Languages & Frameworks:** Python (NumPy, Pandas, Matplotlib, Django, asyncio), Shell Scripting
 - **Cloud & DevOps:** Azure (Functions, App Services, Logic Apps, CI/CD Pipelines), Jenkins, Docker
 - **AI/ML & GenAI:** LangChain, Prompt Engineering, RAG, OpenAI GPT, Azure AI Service
 - **Integration & Messaging:** REST APIs
 - **CRM/ERP:** Siebel CRM (5 years hands-on experience)
 - **Automation:** UI Path
 - **Tools:** Git, Azure DevOps, VS Code
 - **Databases:** Oracle SQL, PLSQL, CosmosDB
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Certifications & Learning

- Oracle Cloud Infrastructure, Azure AI Fundamentals
- Training: Designing Generative AI for Business with Azure OpenAI, Langchain, Langgraph, Agentic RAG
- Continuous learning in Prompt Engineering, Python optimization, and Cloud technologies (Azure, Oracle Cloud Infrastructure, AWS)

Professional Experience

Associate Manager – Python Application Architect

Accenture | 2015 – Present

- Leading a 15-member team to deliver cloud-native solutions using Python and Azure.
- Architected and implemented scalable python applications with Django and Azure Functions.
- Delivered 6+ Generative AI POCs that successfully transitioned to production, reducing manual effort by up to 40%.
- Created reusable components and modules that enhanced team productivity by 30% and standardized implementation across application modules.
- Mentored 10+ junior developers, led code reviews, and enforced best practices, resulting in a 35% reduction in post-deployment issues.
- Developed 15+ automation scripts using Python, Shell scripting, Jenkins, and UiPath RPA, saving over 200 hours of manual work quarterly.

Projects Snapshot

Project: IT Due Diligence Platform – GenARC

Role: Technical Architect | Technologies: Python, Azure, GPT-4o, CosmosDB, RAG

- Led the development of a GenAI-powered Python application utilizing advanced technologies such as large language models (LLMs) and Retrieval-Augmented Generation (RAG).
- Designed and built scalable backend APIs, dynamic data models in CosmosDB, and chatbot capabilities with contextual memory.
- Architected a modular, configurable reporting framework that supports future enhancements with minimal code changes.
- Developed a dynamic PowerPoint generation engine with slide overflow handling, reusable bullet logic, and cross-module integration.
- Implemented chart rendering features using Matplotlib and LLMs, enabling GPT-4o to derive insights from visual data.
- Contributed to database schema design, REST API development, and cross-team data flow coordination for seamless integration.

- Engineered optimized GenAI Python solutions involving complex LLM workflows, with a strong focus on performance and accuracy.
- Coordinated deployment activities including coordination of security scans (DIYA, SAST, DAST), issue resolution, and collaboration with the release team.
- Strengthened alignment between business and technical teams through regular standups, cross-functional walkthroughs, and mentoring efforts.
- Recognized for technical excellence, clean code practices, reusable design patterns, and contributions to scalable architecture and LLM-powered features.

Project: Sales Samples Application – Procter & Gamble (P&G)

Role: Technical Lead | Technologies: Python (Django), Azure AD, Azure APIM, OAuth 2.0

- Led a team in designing and developing the Sales Samples application using the Django framework, delivering key modules such as Order Management and Inventory Management.
 - Architected and migrated the application infrastructure from IaaS to PaaS, improving scalability and maintainability.
 - Designed and implemented authentication and authorization strategies using Azure AD OAuth 2.0, supporting both users and service accounts.
 - Integrated external vendor applications via Azure API Management, collaborating across multiple vendor teams to ensure seamless communication and integration.
 - Delivered comprehensive technical documentation including design specifications, API references, and deployment guides.
 - Proactively introduced user-centric innovations:
 - Intuitive order creation UI pages
 - Persistent cart for user session recovery
 - Wizard-based ad-hoc order submission
 - Flexible reporting capabilities
 - Rapid onboarding interface for new vendors
 - Automated data migration using Python and Django's server management features, reducing deployment effort, and minimizing human error.
 - Worked on Django authentication modules and Azure services, enabling faster turnaround on complex requirements and improving system robustness
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Siebel Developer

Various Clients via Accenture/ Cap Gemini | 2010 – 2015

- Delivered CRM solutions using Siebel Tools for large-scale deployments across telecom and finance sectors, supporting 5,000+ users.
- Designed 10+ enhancements, customized workflows, and generated reports, improving operational efficiency by 25%.
- Managed production support and scripting initiatives, cutting down queue processing efforts with automated jobs created using Shell and batch scripts.
- Participated in 12+ system upgrade cycles and applied fallback scripts that minimized downtime by 60%.
- Created automations for log file analysis using python and shell scripting that could predict the crashes before they occurred.
- Processed over 1M+ fall-out records as part of the Bulk Data Load (BDM), ensuring data accuracy and timely processing.
- Supported bulk data loads in PROD, ensuring seamless migrations with zero rollback events.

Education

Bachelor of Engineering (B.E.) – Electronics and Communication

Adichunchanagiri Institute of Technology, VTU | 2008