

Vinay Kumar Challuru

Solution Architect & AI Engineer | Python Expert | Cloud & AI

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PROFESSIONAL SUMMARY

Solution Architect and AI Engineer with ~14 years of experience designing cloud-native platforms on Azure, AWS, and GCP. Practices Generative AI engineering as a core discipline — building agent-based tooling with Claude SDK, Claude Code CLI, Gemini, and Google AI Studio; designing multi-agent orchestration, fan-out patterns, and RAG pipelines; and applying prompt engineering techniques (chain-of-thought, few-shot, system prompting) in production-facing work. Expanding into Azure AI Foundry for enterprise Gen AI deployment. Brings a track record of reducing cloud infrastructure costs through deliberate architecture and right-sizing decisions. ~9 years leading and mentoring engineering teams of 15+, including reskilling 30-40 engineers from .NET to Python. Active in the AI practitioner community through conference and meetup participation.

SKILLS & EXPERTISE

- **AI & Agentic Systems:** Claude SDK, Claude Code CLI, Gemini, Google AI Studio, Azure AI Foundry, MCP (Model Context Protocol) integrations, SKILL.md-based capability frameworks, Prompt Engineering (chain-of-thought, few-shot, system prompting), Multi-agent orchestration, Fan-out patterns, RAG pipeline design, Semantic search, Responsible AI guardrails
- **Backend & API:** Python (Django, FastAPI), RESTful Web Services, Microservices Architecture, Relational Databases (MySQL, SQL Server)
- **Infrastructure:** Microsoft Azure, AWS & GCP, Serverless Architectures, Containerization (Docker), Linux & Shell Scripting
- **Engineering Quality:** Code Profiling, Performance Optimization, Load Testing, Gap Analysis
- **Leadership:** Agile / Scrum, Team Leadership, Stakeholder Management, Technical Mentorship

WORK EXPERIENCE

Solution Architect

GyanSys - Chennai, India (Jul 2023 - Present)

- Mentored and reskilled 30-40 engineers transitioning from .NET to Python, establishing internal training materials and code review standards for the migration.
- Improved core computation logic performance by 70% using code profiling tools — recognized with a client commendation and Delivery Excellence Award.
- Managed delivery of 3 active Python projects across Azure and AWS in parallel with production support for 2 live applications.
- Architected, deployed, and managed 4 Azure Functions exposing 20+ endpoints, including a SQL Server-backed service serving 200,000+ requests per month and growing.
- Developed Google Looker Studio dashboards replacing static PDF reports with live self-serve operational data, and built Azure alerting and monitoring dashboards for production visibility.
- Contributed to cloud infrastructure cost reduction through architecture right-sizing and resource optimisation across Azure and AWS workloads.

Python Lead Developer

Solaris Softlabs - Chennai, India (Sep 2022 - Jun 2023)

- Built Python REST API backends for proprietary hospitality platforms, owning authentication, business logic, and database integration.
- Directed technical teams, overseeing project lifecycles and enforcing rigorous code quality standards.
- Strategized with stakeholders to optimize Azure cloud resource management.

Senior Technical Lead

Kimeka - Chennai, India (Oct 2021 - Aug 2022)

- Collaborated with clients to translate business requirements into scalable technical architectures.
- Ran performance profiling workshops for the engineering team and introduced benchmarking standards across critical services.
- Served as the primary technical liaison for client communications within Agile frameworks.

Technical Lead

Future Focus Infotech - Chennai, India (Aug 2019 - Oct 2021)

- Facilitated Agile/Scrum ceremonies while championing industry-leading development best practices.
- Modernized legacy systems through automated validation frameworks and code quality refactoring.
- Built Azure Logic Apps workflows for process automation and SQL-based data extraction pipelines.
- Authored Python automation scripts using pandas to extract, cleanse, and consolidate data, generating formatted Excel reports for business consumption.

Sr. Developer / Associate

Cognizant - Chennai, India & Bentonville, AR (Nov 2012 - Aug 2019)

- Engineered production-grade automation, optimized algorithmic performance, and collaborated with business stakeholders to resolve complex production challenges.
- Led development of production-ready automation scripts and migrated legacy data migration frameworks.
- Collaborated directly with business users in the US (Bentonville, AR) to resolve mission-critical production issues.
- Automated recurring manual activities using Bash scripting, significantly reducing operational overhead.

EDUCATION

M.S. Software Engineering - VIT University, Vellore, India

KEY ACHIEVEMENTS

- Boosted day-to-day development productivity by **~50%** through systematic use of Claude, accelerating delivery across concurrent projects.
- Improved Client's core computation logic performance by **70%** using code profiling tools.
- Implemented robust serverless solutions using **Azure Functions** for critical business workflows.
- Developed automated Shell scripts recognized in the Cognizant Innovation Portfolio.
- Recipient of multiple awards including **Delivery Excellence Award** and **Accountability Award**.