

SURYAKUMAR K

Tech Lead | Python • AI • MLOps • Cloud

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Career Objective

Results-driven Tech Lead with over 9 years of expertise in Python, Cloud, storage, and AI-based application development. Passionate about architecting scalable, intelligent backend systems and driving end-to-end automation through MLOps and data-driven engineering, seeking opportunities to lead innovative teams and build impactful, production-ready AI solutions.

Professional Summary

- 9+ years of experience in designing, developing, and deploying backend & AI-driven solutions.
- Strong expertise in Python, Django, REST APIs, Kubernetes, Docker, AWS, ANSIBLE and CI/CD automation.
- Proven record of leading engineering teams, implementing data pipelines, and integrating ML models into production.
- Skilled in microservice architecture, cloud orchestration, and performance optimization.

Key Achievements

- Automated Kubernetes certificate validation for Cisco DNA Center – improving reliability by 25%.
- Built CI/CD pipelines using Jenkins and Docker – reduced deployment cycles by 40%.
- Designed modular Python libraries used across Seagate's open-source CORTX ecosystem.
- Mentored and guided developers in clean architecture and automation best practices.

Technical Skills

- Programming: Python, JavaScript
- Frameworks: Django, DRF, Flask, React, React Native
- DevOps & Cloud: Docker, Kubernetes, Jenkins, Ansible, AWS, CI/CD
- Databases: PostgreSQL, MySQL, MongoDB
- AI/ML: Pandas, NumPy, Scikit-learn, Spacy, NLTK, Regression, Decision Trees
- Big Data: Spark, Kafka
- Version Control: Git, SVN
- Tools: VS Code, PyCharm, Sublime, Nano, Antigravity

Education

- Advanced Certificate in Machine Learning & Cloud — IIT Madras (UpGrad), 2021
- Master of Computer Applications — SRM Valliammai Engineering College, 2016
- Bachelor of Computer Applications — Pachaiyappa's College for Men, 2014

Certifications

- AWS Certified Cloud Practitioner (In Progress)
- Kubernetes for Developers — Udemy (2024)
- Docker Mastery — Udemy (2024)

Professional Experience

Tech Lead / Senior Python Developer — Aziro Technologies (Client: Cisco Systems) | Nov 2023 – Present

- Developed automation tools for Kubernetes cert validation and system health checks.
- Designed REST APIs and CLI interfaces for Cisco DNA Center modules.
- Managed CI/CD with Jenkins, Docker, and Ansible.
- Integrated AI/ML data workflows, improving performance by 20%.

Senior Python Developer — Aziro Technologies (Client: Seagate Technology) | May 2020 – Nov 2023

- Contributed to open-source Seagate CORTX libraries (ConfStore, KvStore, MessageBus).
- Implemented K8s environments and deployment automation.
- Led TDD adoption, improving test coverage and reliability.
- Collaborated on distributed storage architecture improvements.

Full Stack Developer — Contus Interactive Pvt Ltd | Nov 2018 – May 2020

- Developed Django REST APIs for SD-WAN and IoT platforms.
- Built ReactJS dashboards for real-time analytics.
- Implemented RASA-based AI chatbot (BotChatAI) with NLP and Spacy.
- Automated translation workflows reduce effort by 30%.

Associate Consultant Developer — Amtex Systems Pvt Ltd | May 2016 – Nov 2018

- Built Django-based CMS and SaaS applications.
- Designed user data management and reporting modules.
- Participated in end-to-end agile product development lifecycle.

Highlighted Projects

Cisco DNA Center Automation (Python, Ansible, Kubernetes)

Developed tools to validate Kubernetes certs, APIs, and system state for Cisco DNA Center. Automated validations improved uptime and reliability.

Seagate CORTX-utils (Open Source) (Python, Kafka, Kubernetes)

Designed ConfStore and MessageBus components. Contributed to CORTX open-source ecosystem improving modular reuse.

BotChatAI (RASA NLU, Flask, React, MongoDB)

Built an enterprise chatbot using NLP and intent classification with Spacy and sklearn. Enabled natural conversational interfaces for IoT and support apps.