

# SURYAKUMAR K

## Tech Lead | Python • AI • MLOps • Cloud

✉ [ksuryakumar@outlook.in](mailto:ksuryakumar@outlook.in) | ☎ +91 944 551 9873 | GitHub:  
[github.com/suryakumar1024](https://github.com/suryakumar1024) | LinkedIn: [linkedin.com/in/surya-kumar-k-45559343/](https://linkedin.com/in/surya-kumar-k-45559343/)

### 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.