

Akshay Sonawane

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PROFESSIONAL SUMMARY

IT Software Developer with 5 years of experience specializing in Python development and DevOps.

Skilled in building scalable backend systems, automating deployments, and contributing to cloud-native architectures.

Hands-on expertise in Python (Django, FastAPI), Docker, Kubernetes, CI/CD, and cloud technologies.

Proven track record of delivering reliable and secure solutions in enterprise and large-scale telescope systems.

CORE SKILLS

- Python, Django, FastAPI, SQLAlchemy, REST APIs
- AWS, Docker, Kubernetes, CI/CD (Jenkins, GitHub Actions)
- Microservices, Event-driven Architecture, Distributed Systems
- PostgreSQL, MySQL, TimescaleDB
- Authentication (Azure AD, OAuth2, MSAL), API Security
- Agile, Code Reviews, Documentation

PROFESSIONAL EXPERIENCE

Software Developer — Tata Consultancy Services (07/2021 – Present)

- Designed backend components for SKA Telescope systems using Python, Django, and FastAPI.
- Built and deployed containerized microservices on Kubernetes and Docker to improve scalability and reliability.
- Implemented CI/CD pipelines, automating builds, tests, and deployments across environments.
- Developed authentication workflows using MSAL and Azure AD for secure access control.
- Integrated cloud services (AWS EC2, RDS, S3, Lambda) into production pipelines.
- Collaborated with global engineering teams and supported production deployments in South Africa.

Intern — Aeron Systems Pvt. Ltd. (07/2017 – 12/2017)

- Developed stereo-vision-based blind assistance system with 95% object detection accuracy.

EDUCATION

- M.Tech, Electronics & Telecommunication — MNIT Jaipur (2021)
- B.Tech, Electronics & Telecommunication — VIT Pune (2018)

CERTIFICATIONS

- AWS Certified Cloud Practitioner (Valid till 2027)
- IIT Kharagpur AI & ML Programme
- CKAD Training Programme
- PCEP & PCAP Preparation Training

