

# Audumbar Patil

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## Professional Summary

**DevOps-focused Software Engineer** with expertise in **cloud-native** architectures, **serverless computing**, and **IoT-integrated** systems. Experienced in building scalable **backends**, automating **CI/CD pipelines**, and deploying **ML** models using **AWS**, **Python**, and **React/React Native**. Skilled in migrating legacy systems to serverless platforms and integrating real-time data for AgriTech intelligence. Proven ability to deliver full-stack solutions, optimize infrastructure, and lead ML-powered digital twin initiatives for actionable, production-ready insights at scale.

## Professional Experience

**Digicrop Agriculture Pvt. Ltd.**

**Software Developer**

**June 2022 – Present**

- **Architected and led** the migration of backend services from **EC2** to a fully **serverless AWS Lambda architecture**, improving scalability, performance, and cost efficiency for mobile and website.
- Designed **CI/CD** pipelines using **GitHub Actions** and **Jenkins** to automate deployment of **Python-based Lambda** functions, **React Native** mobile apps, and infrastructure provisioning.
- Implemented **API Gateway** integrations for secure and efficient routing of **RESTful** APIs, enabling seamless communication between the app and **AWS** services.
- Engineered **ML model** deployment **pipelines** using **Keras, TensorFlow, and CNN architectures**, integrating them into production **APIs** for grapevine disease detection and crop monitoring.
- Coordinated **DevOps** efforts to integrate **IoT sensor** data pipelines, transitioning from **Firebase** to **AWS DynamoDB** for low-latency access and improved throughput.
- Automated **infrastructure monitoring and alerting**, leveraging **AWS CloudWatch** and **Lambda** triggers for system health checks and real-time agronomic intelligence.
- Led backend **API development: Python (CRUD), Lambda, API Gateway**, and secure integrations.
- Managed DevOps for **React Native + Expo mobile apps**, ensuring CI integration, artifact builds, and fast rollouts with **AWS Lambda** and fetching data from **DynamoDB**.
- Executed **database migration** from **Firebase** to **DynamoDB**; created new endpoints for high-frequency field data logging.

**Graduate Software Trainee Engineer**

**June 2021 – June 2022**

- Developed and maintained **Python/Django APIs** for the production-grade website; implemented deployment automation using **Jenkins**. ( **Digicrop website-[Live site](#)** ).
- Integrated IoT field/environment data from sensors via **Firebase**; automated ingestion to **AWS** for real-time dashboards.
- Assisted in setting up **CI pipelines**, integrating GitHub and Jenkins with AWS EC2 and GoDaddy for domain-linked deployments.
- Managed **S3 buckets** for media and model storage; configured static hosting and lifecycle policies.
- Collaborated with the frontend team using **React.js** for dynamic UI and implemented **Firebase-to-EC2** backend transitions.

## Education

Vishwakarma Institute of Technology

**July 2017 – March 2021**