

## LogGuard – Detailed Day-by-Day Execution Guide

This document explains exactly what to do each day, why you do it, and what success looks like.

Duration: 3–4 weeks

### WEEK 1 – Backend Foundation & Log Ingestion

Day 1: Project setup, FastAPI init, health endpoint

Day 2: Log ingestion API

Day 3: Database integration

Day 4: Log parsing & normalization

Day 5: Log query & filtering

Day 6–7: Testing & refactoring

### WEEK 2 – Metrics & Anomaly Detection

Day 8: Metrics extraction

Day 9: Baseline behavior

Day 10: Anomaly detection engine

Day 11: Alert rules

Day 12: Alert delivery

Day 13–14: Real-world testing

### WEEK 3 – Dashboard & Production Polish

Day 15: Dashboard

Day 16: Dockerization

Day 17: Security basics

Day 18: Performance optimization

Day 19: Documentation

Day 20: Demo & career prep

Final Result:

A production-style monitoring system demonstrating backend engineering, observability, anomaly detection, and DevOps fundamentals.